

MARCH 8, 1979

NRBIB

2448

MANAGEMENT REPORT

USNPS — GRSM
VEG. MGT

CHECKLIST OF FUNGI
OF THE GREAT SMOKY MOUNTAINS
NATIONAL PARK

MANAGEMENT REPORT NO. 29

U. S. DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
SOUTHEAST REGION

Resource Management Specialist
Great Smoky Mountains National Park
Gatlinburg, TN 37738






CHECKLIST OF FUNGI
OF THE GREAT SMOKY MOUNTAINS
NATIONAL PARK

MANAGEMENT REPORT NO. 29

Ronald H. Petersen
General Editor
Botany Department
University of Tennessee
Knoxville, TN 37916

Department of the Interior
National Park Service
Southeast Region
Uplands Field Research Laboratory
Great Smoky Mountains National Park
Twin Creeks Area
Gatlinburg, TN 37738



Digitized by the Internet Archive
in 2012 with funding from
LYRASIS Members and Sloan Foundation

<http://archive.org/details/checklistoffungi29pete>

TABLE OF CONTENTS

	<u>Page</u>
Editorial Introduction	1
1. Myxomycetes	8
2. Phycomycetes	12
3. Ascomycetes	13
4. Fungi Imperfecti	28
5. Ustilaginales	36
6. Uredinales	37
7. Septobasidiales	40
8. Jelly- or Tremelloid Fungi	41
9. Thelephoroid and Corticioid Fungi	43
10. Hydroid Fungi	49
11. Clavarioid Fungi	51
12. Polyporoid Fungi	54
13. Boleoid Fungi	61
14. Cantharelloid Fungi	65
15. Agaricoid Fungi	66
16. Gastromycetes	94
Literature on the Fungi of the Great Smoky Mountains National Park	96

EDITORIAL INTRODUCTION

This list of fungi was compiled and published (Castanea 2:45-58, 1937) originally by Dr. Lexemuel Ray Hesler (1888-1977), who also collected and identified virtually all of its agarics. Hesler periodically updated the list, and as publications by others appeared, including fungi collected in the Great Smoky Mountains National Park, these fungus names were added. The last general revision was accomplished in 1962, and the list of agarics was updated by Hesler in 1976.

Revisions made to produce the list below have been limited more or less to non-agaric basidiomycetes; lists of specific groups have been modernized and updated by the persons whose names appear on them. Major literature dealing with the fungi is included at the conclusion of the list, mostly by Hesler, Petersen, and collaborators.

Specimens of most fungi on the list are deposited at the University of Tennessee. Over the years, however, Hesler sent several thousand specimens to experts all over eastern North America, always reserving a good portion for his own institution, and usually identifications were forthcoming and duly entered in the herbarium records. Hence identifications of most non-agarics have been determined or confirmed by experts in the appropriate groups. In his early years in agarics, Hesler sent them to Alexander Smith, but eventually gained confidence and needed only occasional confirmations.

Polypores, jelly fungi, geoglossums, and Pyrenomycetes were sent to Overholts (and later Lowe), Lowy, Mains, and Julian Miller, respectively; rusts to Drs. Arthur and Cummins; and assorted ascomycetes to Dearness. All were prompt in their replies and when not, were gently prodded. Of course, all specimens gathered in the park and deposited before 1934 were destroyed in a fire which razed the entire Botany Department. Some of these specimens had been split and presumably remain in other herbaria.

The enormity of Hesler's contribution may be seen in the number of type localities within the park. Indian Creek drainage, for instance, is the type locality for nearly 50 basidiomycetes, and Cades Cove serves the same purpose for at least three times this number. Cades Cove, in particular, has been consistently mentioned as one of the richest locales for macrofungi in the world; this is due, in part, to its intensive inventory by Hesler. After at least 40 years of collecting there, Hesler always categorically stated that he had never made a trip to "The Cove" without finding something new or very interesting. Hesler's inventory is the more complete by his incessant exportation of specimens to experts for identification and his development of keys, descriptions, and photos of great numbers of collections.

The history of mycological collecting in the park is really quite recent. In the 1850's, the Rev. Moses Ashley Curtis, residing on

the Piedmont Plateau of North and South Carolina, was appointed a founding trustee of the University of the South, Sewanee College, in the Cumberland Mountains. He made the trip to the institution site, passing through the high mountains of the state boundaries on the way. The weather apparently was dry, for he reported finding very few macrofungi.

Until the park itself was set aside in the mid-1930's, reports of fungi from areas within its eventual boundaries were almost absent. Atkinson specimens from Blowing Rock and Pisgah, NC; Murrill collections from Pink Beds and Asheville; and Burlington material from Brevard and Pink Beds were among the few samples from the area. The environs of the park were inhabited by mountain people, portrayed by Horace Kephart in the 1930's. No roads over the mountains were to be found between the Pigeon River gorge and the southern edge of the eventual park. Access from the Tennessee side of the mountains was by logging train, by foot, or by wagons from Gatlinburg (then a crossroad) through Sugarland; or from Tuckaleechee Cove (now Townsend) over Rich Mountain. On the North Carolina side, Bryson City was the only springboard, with the Cherokee Indian reservation standing between the less-than-intrepid botanist and the mountains. To this day, the Tennessee side is better known and much better sampled than the North Carolina side.

Even William Chambers Coker did not travel to the Smoky Mountains, sticking close to Chapel Hill and Highlands, NC, and occasionally Blowing Rock. The close association of Coker, Hesler, and Reinke (of Vanderbilt University) in the founding of Highlands Biological Station did not result in collecting in the Smoky Mountains, for travel from Knoxville to Highlands, NC, was by train to Asheville; not through the park area until later.

Although Hesler often collected alone or was occasionally accompanied by only his wife, he shared many productive trips with A. J. Sharp, a professor at the University of Tennessee, who was, if anything, an even more inveterate field investigator than Hesler. Another enthusiast was Arthur Stupka, for years the Park Naturalist, and the three were often companions. Over the years, visits by outside workers have increased and a half dozen Ph.D. students have used the park as a home collecting ground.

Foreign mycologists have visited the park on several occasions. In 1939, a Mycological Society of America Foray was held in Gatlinburg, with Jacob Lange, the eminent Danish mycologist, and his very young son, Morten, in attendance. Morten, not yet a teenager, was reported to have known all the genera of agarics, much to the amazement of the American workers. In 1968, a score of eminent European basidiomycete taxonomists spent a week of field trips in the park as part of the Hesler Symposium held at the University of Tennessee.

Special herbarium labels were printed for the occasion and Great Smoky Mountains National Park fungi can be found scattered in European herbaria. Most recently, several foreign workers spent five days in the park in September 1977, following the Second International Mycological Congress in Tampa, Florida. Individual mention must be made of a year in residence by M. A. Donk, resulting in a few thousand specimens, many from the park. These now reside in the Rijksherbarium, Leiden, The Netherlands. All of this exposure has spread the reputation of the park as an unusually rich mycological collecting area and assures its future as an international attraction.

The complexity of forest flora makes difficult the description of even above-ground plant communities. Presumptive mycorrhizal associations only multiply this complexity. Both herbaceous and woody plants habitually are associated with fungi in endo- and ectotrophic mycorrhizae, but with the extremely high number of plant taxa in the southern Appalachians, descriptions of specific relationships are almost impossible by indirect means (that is, by observations of fruit bodies near trees). With twoscore tree species often visible within a 50-meter square and root systems overlapping completely, such inferential data are almost useless. Only artificial cultures from individual roots and the reestablishment of their mycorrhizae in pure culture (a sort of Koch's postulates of mycorrhizal research) can produce progress

in this direction, but we are still far removed from such a goal. Meanwhile, independent cataloging of higher plants and fungi must continue.

Large distributional patterns of macrofungi are developing slowly as authentic specimens from widely scattered areas are examined for comparative purposes. For example, circumboreal fungi may be found at high elevations of the park on or under spruce and fir. Simultaneously, around low elevation stream beds such as Indian Creek or Parsons Branch, fungi which are also found in the neo-Pacific and Pacific tropics form a significant part of the macrofungal flora. The latter pattern extends to Japan, according to Hongo.

Contrary to most forest ecosystems of the world, which are rapidly disappearing and imperatively require mycological inventories before total destruction, the Great Smoky Mountains National Park has been declared an international biome resource, and large portions seem destined for preservation as wilderness. Together with nearby Coweeta Hydrologic Laboratory, these areas presently are the only such reserves in the eastern United States. Increasing numbers of visitors to the park, while making access more awkward, do not seriously threaten the overall fungus flora. Specific exceptions, such as a proposed roadbed uncomfortably close to Indian Creek, have been challenged and will continue as public demands on the park increase.

Although care has been taken to cite as correctly as possible a name in the Basidiomycetes, the names cited in other groups are passed on essentially as listed by Hesler (manuscript copy, 1962). Because Hesler emphasized basidiomycetes in his research, the names for Ascomycetes, lower fungi, and slime molds may not be the best names available.

In 1962, a total of 1,975 fungi were reported from the park. In the current list, that number has increased to 2,198. Although the number of new species described from type specimens collected in the park was 81 in 1962, with manuscripts on Hebeloma and Lactarius soon to be published with several additional new species from the park, no count of new taxa has been taken for the current list. Names in these two genera include manuscript names to be published later and in no way constitute the introduction of nomenclaturally acceptable epithets. These names are enclosed in square brackets indicating their manuscript status. A total of 482 genera are listed.

It is hoped that this list can be kept somewhat up to date, and any mycologist with authentic records of fungi not appearing on the list is cordially invited to send such records to the General Editor. In this way, the park can continue to be one of the few areas with ongoing records of known fungi.

97
1. MYXOMYCETES (Slime Molds)

(Most of these records are from collections by Arthur L. Welden, formerly a graduate student in the Department of Botany, The University of Tennessee, and now at Tulane University. See bibliography.)

Arcyria

Arcyria cinerea (B.) Pers.
Arcyria denudata (L.) Wett.
Arcyria incarnata Pers.
Arcyria insignis Kalchbr. & Cooke

Badhamia

Badhamia curtisii (Berk.) Rost.

Ceratiomyxa

Ceratiomyxa fruticulosa (Muell.) Macbr.

Clastoderma

Clastoderma debaryanum Blytt

Comatricha

Comatricha nigra (Pers.) Schroet.
Comatricha pulchella (Bab.) Rost.
Comatricha suksdorfii Macbr.
Comatricha typhoides (Bull.) Rost.

Cribraria

Cribraria aurantiaca Schrad.
Cribraria elegans Berk. & Curt.
Cribraria intricata Schrad.
Cribraria intricata var. dictyoides (Cke. & Balf.)
Cribraria languescens Rex
Cribraria microcarpa (Schrad.) Pers.
Cribraria purpurea Schrad.
Cribraria rufa (Roth) Rost.
Cribraria tenella Schrad.

Diachea

Diachea bulbillosa (Berk. & Br.) List.
Diachea leucopodia (Bull.) Rost.

Dictydium

Dictydium cancellatum (Batsch) Macbr.

Diderma

Diderma effusum (Schw.) Morg.
Diderma hemisphaericum (Bull.) Hornem.
Diderma rugosum (Rex) Macbr.
Diderma testaceum (Schrad.) Pers.

Didymium

Didymium crustaceum Fr.
Didymium iridis (Ditmar) Fries
Didymium melanospermum (Pers.) Macbr.
Didymium minus (Lister) Morgan
Didymium nigripes (Lk.) Fr.
Didymium squamulosum (Alb. & Schw.) Fr.
Didymium xanthopus (Ditmar) Fr.

Enerthenema

Enerthenema papillatum (Pers.) Rost.

Fuligo

Fuligo septica (L.) Weber
Fuligo septica var. rufa Pers.

Hemitrichia

Hemitrichia clavata (Pers.) Rost.
Hemitrichia serpula Rost.
Hemitrichia stipitata (Massee) Macbr.
Hemitrichia vesparium (Batsch) Macbr.

Lamproderma

Lamproderma arcyronema Rost.
Lamproderma columbinum (Pers.) Rost.

Leocarpus

Leocarpus fragilis (Dicks.) Rost.

Lepidoderma

Lepidoderma tigrinum (Schrad.) Rost.

Licea

Licea operculata (Wingate)

Lycogala

Lycogala epidendrum (L.) Fr.

Lycogala epidendrum var. *exiguum* (Morg.) List.

Lycogala exiguum Morgan

Oligonema

Oligonema flavidum Peck

Oligonema schweinitzii (Berk.) G. W. Martin

Perichaena

Perichaena chrysosperma (Currey) List.

Perichaena depressa Libert.

Physarum

Physarum cinereum (Batsch) Pers.

Physarum citrinellum Peck

Physarum contextum Pers.

Physarum didermoides (Pers.) Rost.

Physarum globuliferum (Bull.) Pers.

Physarum lateritium (Berk. & Rav.) Morg.

Physarum leucophaeum Fr.

Physarum leucopus Link

Physarum listeri Macbr.

Physarum melleum (Berk. & Br.) Masee

Physarum nucleatum Rex

Physarum nutans Pers.

Physarum penetrale Rex

Physarum psittacinum Ditm.

Physarum pulcherrimum Berk. & Rav.

Physarum pulcherripes Peck

Physarum sinuosum (Bull.) Weinm.

Physarum stellatum (Masee) G. W. Martin

Physarum sulphureum Alb. & Schw.

Physarum sulphureum var. *sessile* G. List.

Physarum superbum Hagelstein

Physarum tenerum Rex

Physarum virescens Ditm.

Physarum viride (Bull.) Pers.

Prototrichia

Prototrichia metallica (Berk.) Macbr.

Stemonitis

Stemonitis axifera (B.) Macbr.

Stemonitis flavogenita Jahn

Stemonitis fusca Roth

Stemonitis pallida Wing.

Stemonitis smithii Macbr.

Stemonitis splendens Rost.

Stemonitis virginicensis Rex

Trichia

Trichia affinis DeBy.

Trichia botrytis Pers.

Trichia contorta Rost.

Trichia decipiens (Pers.) Macbr.

Trichia erecta Rex

Trichia favoginea (Batsch) Pers.

Trichia persimilis P. Karst.

Trichia pusilla (Hedw.) G. W. Martin

Trichia scabra Rost.

Trichia subfusca Rex

Trichia varia Pers.

Tubifera

Tubifera ferruginosa (Batsch) Gmel.

2. PHYCOMYCETES

Albugo

Albugo candida (P. ex Lev.) O. Kuntze
Albugo ipomosae-panduranae (Farl.) Swingle

Bremia

Bremia lactucae Regel

Peronospora

Peronospora corydalis DeBy.
Peronospora ficariae Tul
Peronospora obducens Schroet.
Peronospora parasitica (L.) Fr.

Plasmopara

Plasmopara halstedii (Farl.) Beal. et de Toni
Plasmopara viticola (B. & C.) B. & de T.

Synchytrium

Synchytrium decipiens Farl.

Syzygites

Syzygites megalocarpus Ehrenb.

3. ASCOMYCETES

Adelopus

✓ *Adelopus balsamicola* (Pk.) Th.

Aleuria

- ✓ *Aleuria aurantia* (Pers.) Fckl.
✓ *Aleuria cestricea* (E. & E.) Seaver
✓ *Aleuria wisconsinensis* Rehm

Aleurina

- ✓ *Aleurina atrovinosa* (Cke.) Seaver

Anthostomella

- ✓ *Anthostomella sepelibilis* (B. & C.) Sacc.

Apioporthes

- ✓ *Apioporthes vepris* (De Lacr.) Wehm.

Apostemidium

- ✓ *Apostemidium guernisacii* (Fr.) Boud.

Arachnopeziza

- ✓ *Arachnopeziza candido-fulva* (Schw.) Korf

Ascophanus

- ✓ *Ascophanus granulatus* (Bull.) Speg.

Balansia

- ✓ *Balansia hypoxylon* (Pk.) Atk.
 (= *Atkinsonella hypoxylon* (Pk.) Diehl)
✓ *Balansia strangulans* (Mont.) Diehl

Belonidium

- ✓ *Belonidium introspectum* (Cke.) Sacc.

Bifusella

- ✓ *Bifusella faullii* Darker

Botryosphaeria

Botryosphaeria ribis (Tode) Gross. & Dugg.

Bulgaria

Bulgaria inquinans Fr.

Bulgaria rufa Schw.

Caliciopsis

Caliciopsis pinea Peck

Calycina

Calycina macrospora (Pk.) Seaver

Camarops

Camarops pugillus (Schw.) Shear

Cenangium

Cenangium balsameum Pk.

Cenangium tennesseense Kanouse

Ceratostoma

Ceratostoma lagenarium (Pk.) Fr.

Chlorosplenium

Chlorosplenium aeruginosum De Not.

Chlorosplenium chlora (Schw.) Curt.

Chlorosplenium versiforme De Not.

Chromocreopsis

Chromocreopsis cubispora (Ellis & Holw.) Seaver

Claviceps

Claviceps paspali Stev. & Hall

Clypeolella

Clypeolella leemingii (E. & E.) Theiss.

Coccomyces

Coccomyces hiemalis Higgins

Colpoma

Colpoma morbidum (Pk.) Sacc.

Cordyceps

- ✓ Cordyceps capitata Link
- ✓ Cordyceps cicadae (Miq.) Massee
- ✓ Cordyceps fracta Mains
- ✓ Cordyceps herculea (Schw.) Sacc.
(=C. melothanthae (Tul.) Sacc.)
- ✓ Cordyceps hesleri Mains
- ✓ Cordyceps intermedia Imai?
- ✓ Cordyceps michiganensis Mains
- ✓ Cordyceps militaris (L.) Link
- ✓ Cordyceps ophioglossoides Link
- ✓ Cordyceps ravenelii B. & C.
- ✓ Cordyceps smithii Mains
- ✓ Cordyceps sphecocephala (Klotzsch) Massee
- ✓ Cordyceps sphingum (Tul.) B. & C.
- ✓ Cordyceps stylophora Berk. & Br.
- ✓ Cordyceps superficialis Pk.
- ✓ Cordyceps variabilis Petch
- ✓ Cordyceps viperina Mains

Coryne

- ✓ Coryne sarcoidea (Jacq.) Tul.
- ✓ Coryne sarcoidea var. urnalis (Nyl.) Karst.
- ✓ Coryne solitaria Rehm

Corynetes

- ✓ Corynetes robustus Durand

Creonectria

- ✓ Creonectria cucurbitula (Sacc.) Seaver

Creopus

- ✓ Creopus gelatinosus (Tode) Lk.

Cryptodiaporthe

- ✓ Cryptodiaporthe aculeans (Schw.) Web.

Cryptomyces

✓ Cryptomyces pteridis (Rab. ex Fr.) Rehm

Cudonia

✓ Cudonia circinans (Pers.) Fr.

✓ Cudonia lutea (Pk.) Sacc.

Cyathicula

✓ Cyathicula petiolorum (Rob. & Desm.) Sacc.

Daldinia

✓ Daldinia concentrica (Bolt.) Ces. & De Not

Dasyscypha

✓ ✓ Dasyscypha acerina (Cke. & Ell.) Cash

✓ Dasyscypha cerina (Pers.) Fckl.

✓ Dasyscypha nivea (Fr.) Sacc.

Dermatea

✓ ✓ Dermatea balsamea Pk.

✓ Dermatea cerasi (Pers.) Fr.

✓ Dermatea prododendri Rehm.

Diaporthe

✓ Diaporthe arctii (Lasch.) Nits.

✓ Diaporthe impulsa (Cke. & Pk.) Sacc.

Diatrype

✓ Diatrype virescens (Schw.) Curt.

Diatrypella

✓ Diatrypella discoidea Cke. & Pk.

✓ ✓ Diatrypella discoidea Cke. & Pk. var. alni Cke.

✓ Diatrypella favacea (Fr.) C. & De Not.

Dibotryon

✓ Dibotryon morbosum (Fr.) Theiss. & Syd.

Dimerosporium

✓ Dimerosporium tsugae Dearn.

Elaphomyces

- ✓ Elaphomyces appalachiensis Linder
- ✓ Elaphomyces variegatus Vitt.

Encoella

- ✓ Encoella furfuracea (Fr.) Karst.

Endothia

- ✓ Endothia gyrossa (Sg.) Fckl.
- ✓ Endothia parasitica (Murr.) A. & A.

Erinella

- ✓ Erinella sinensis Teng.

Erysiphe

- ✓ Erysiphe cichoracearum DC.
- ✓ Erysiphe galeopsidis DC.

Eutypa

- ✓ Eutypa spinosa (P.) Tul.

Eutypella

- ✓ Eutypella fraxinicola (Cke. & Pk.) Sacc.
- ✓ Eutypella microcarpa E. & E.
- ✓ Eutypella sepulta (B. & C.) Dearn.

Fracchiaea

- ✓ Fracchiaea heterogenea Sacc.

Geoglossum

- ↘ Geoglossum difforme (Fr.) Durand
- ↘ Geoglossum difforme var. difforme Mains
- ↘ Geoglossum difforme var. variable Mains
- ↘ Geoglossum fallax Durand
- ↘ Geoglossum glutinosum Pers. ex Fr.
- ↘ Geoglossum nigritum Cke.
- ↘ Geoglossum peckianum Cooke
(=Geoglossum difforme (Fr.) Durand?)
- ↘ Geoglossum pygmaeum Gerard
- ↘ Geoglossum simile Peck (=Geoglossum glabrum Fr.?)

Geopyxis

- ↘ Geopyxis cupularis (L.) Sacc.
- ↘ Geopyxis nebulosa (Cke.) Sacc.

Gloniopsis

- ↘ Gloniopsis ellisii Cash

Glonium

- ↘ Glonium stellatum Muhl.

Gnomonia

- ↘ Gnomonia setacea (P. ex Fr.) C. & De Not
- ↘ Gnomonia ulmea (Sacc.) Thüm.

Gnomoniella

- ↘ Gnomoniella tenella (Ell. & Ev.) Sacc.

Guignardia

- ↘ Guignardia aesculi (Pk.) Stewart

Helotium

- ✓ *Helotium citrinum* (Hedw.) Fr.
- ✓ *Helotium confluens* Schw.
- ✓ *Helotium epiphyllum* (Pers.) Fr.
- ✓ *Helotium imberbe* (Bull.) Fr.
- ✓ *Helotium linderi* White
- ✓ *Helotium macrosporum* (Pk.) Kanouse
- ✓ *Helotium phyllophilum* (Desm.) Karst.
- ✓ *Helotium saprophyllum* Pk.
- ✓ *Helotium scutula* (Pers.) Karst.

Helvella

- ✓ *Helvella atra* Oed.
- ✓ *Helvella crispa* Fr.
- ✓ *Helvella elastica* Fr.
- ✓ *Helvella lacunosa* Fr.
- ✓ *Helvella leucomelas* (Pers.) Korf

Hydntria

- ✓ *Hydntria cubispora* (Bessey & Thompson) Gilkey

Hypocrea

- ✓ *Hypocrea aurantiaca* Pk.
- ✓ *Hypocrea citrina* Fr.
- ✓ *Hypocrea gelatinosa* Tode ex Fr.
- ✓ *Hypocrea pallida* Fr.
- ✓ *Hypocrea patella* Cooke & Pk.
- ✓ *Hypocrea rufa* Pers. ex Fr.
- ✓ *Hypocrea rufula* Pers. ex Fr.

Hypoderma

- ✓ *Hypoderma brachysporum* (Rost.) Tub.
- ✓ *Hypoderma commune* (Fr.) Duby
- ✓ *Hypoderma hedgcockii* Dearn.
- ✓ *Hypoderma lethale* Dearn.

Hypomyces

- ✓ *Hypomyces aurantiaca* Pk.
- ✓ *Hypomyces aurantius* (P.) Tul.
- ✓ *Hypomyces chrysospermus* (Bull. ex Fr.) Tul.
- ✓ *Hypomyces hyalinus* (Schw.) Tul.
- ✓ *Hypomyces lactifluorum* (Schw.) Tul.
- ✓ *Hypomyces rosellus* (S. & S.)

Hypoxylon

- ✓ Hypoxylon cohaerens P. ex F.
- ✓ Hypoxylon commutatum Nke.
- ✓ Hypoxylon deustum (Hoffm. ex Fr.
- ✓ Hypoxylon fuscum (Pers.) Fr.
- ✓ Hypoxylon microplacum (Berk. & Curt.) Mill.
- ✓ Hypoxylon rubiginosum P. ex Fr.
- ✓ Hypoxylon sassafras (Schw.) Berk.
- ✓ Hypoxylon truncatum (Sp. ex Fr.) Mill.

Hysterium

- ✓ Hysterium insidiens Schw.

Hysterographium

- ✓ Hysterographium mori (Schw.) Rehm.
- ✓ Hysterographium vulvatum (Schw.) Sacc.

Ionomidotis

- ✓ Ionomidotis fulvo-tingens (B.) Cash

Karschia

- ✓ Karschia lignyota (Fries) Sacc.

Lachnum

- ✓ Lachnum ciliare (Schrad. ex Fr.) Rehm.
- ✓ Lachnum niveum (Hedw. Fil.) Karst.
- ✓ Lachnum sulfureum (Pers.) Rehm
- ✓ Lachnum virgineum (Batsch ex Fr.) Karst.

Laestadia

- ✓ Laestadia leucothoes (Cke.) Sacc.

Lamprospora

- ✓ Lamprospora constellatio (B. & Br.) Seaver

Lasiosphaeria

- ✓ Lasiosphaeria ovina (Pers. ex Fr.) Ces. & De Not.
- ✓ Lasiosphaeria spermoides (Hoffm. ex Fr.) C. & De Not.

Leotia

- ✓ Leotia chlorocephala Schw.
- ✓ Leotia lubrica (Scop.) Fr.
- ✓ Leotia stipitata (Bosc) Schroet.

Leptosphaeria

- ✓ Leptosphaeria ogilviensis (B. & Br.) C. & De Not.

Macropodia

- ✓ Macropodia fusicarpa Ger.

Massaria

- ✓ Massaria argus (Berk. & Br.) Fres.
- ✓ Massaria inquinans Tode ex Fr.

Massarina

- ✓ Massarina eburnea (Tul.) Sacc.

Melanconis

- ✓ Melanconis decoraensis Ell.

Melanomma

- ✓ Melanomma verrucarum (Fr.) Sacc.

Meliola

- ✓ Meliola bidentata Cke.
- ✓ Meliola nidulans (Schw. ex Fr.) Cke.

Metasphaeria

- ✓ Metasphaeria panicorum (Cke.) Sacc.

Microglossum

- ✓ Microglossum rufum (Schw.) Underw.

Microsphaera

- ✓ *Microsphaera alni* (DC.) Wint.
- ✓ *Microsphaera alni* (DC.) Wint. var. *vaccinii* (Schw.) Salmon
- ✓ *Microsphaera diffusa* Cooke & Peck
- ✓ *Microsphaera grossulariae* (Wallr.) Lev.
- ✓ *Microsphaera ravenelii* Berk.
- ✓ *Microsphaera vaccinii* (S.) C. & P.

Mitrula

- ✓ *Mitrula irregularis* (Pk.) Durand
- ✓ *Mitrula phalloides* (Bull.) Chev.

Mollisia

- ✓ *Mollisia benesaude* (Tul.) Phil.
- ✓ *Mollisia cinerea* (Batsch) Karst.
- ✓ *Mollisia fumigata* (Ell. & Ev.) Sacc.
- ✓ *Mollisia melaleuca* (Fr.) Sacc.
- ✓ *Mollisia riccia* Sacc.

Morchella

- ✓ *Morchella angusticeps* Pk.
- ✓ *Morchella conica* Pers.
- ✓ *Morchella deliciosa* Fr.
- ✓ *Morchella esculenta* (L.) Pers.
- ✓ *Morchella hybrida* (Sow.) Pers.

Mycosphaerella

- ✓ *Mycosphaerella fragariae* (Tul.) Lindau
- ✓ *Mycosphaerella spleniata* (Cke. & Pk.) House
- ✓ *Mycosphaerella tulipifera* (Schw.) Hig.

Myriangium

- ✓ *Myriangium duriae* Mont. & Berk.

Myriogenospora

- ✓ *Myriogenospora atramentosa* (Berk. & Curt.) Diehl

Naevia

- ✓ *Naevia canadica* Rehm.

Nectria

- ✓ Nectria cinnabarina (Tode) Fr.
- ✓ Nectria episphaeria Tode ex Fr.
- ✓ Nectria flavo-ciliata Seaver
- ✓ Nectria ochroleuca Schw.
- ✓ Nectria peziza Tode ex Fr.
- ✓ Nectria sanguinea Fr.

Nummularia

- ✓ Nummularia discreta Tul.
- ✓ Nummularia petersii (B. & C.) Mill.
- ✓ Nummularia tinctor (Berk.) Ell. & Ev.

Ombrophila

- ✓ Ombrophila lilacina (Wulf.) Karst.

Ophiobolus

- ✓ Ophiobolus hamasporus Ell. & Ev.

Ophiodothella

- ✓ Ophiodothella vaccinii Boyd

Parodiella

- ✓ Parodiella perisporioides (B. & C.) Speg.

Patella

- ✓ Patella albida (Schaeff.) Seaver
- ✓ Patella albospadicea (Grev.) Seaver
- ✓ Patella coprinaria (Cke.) Seaver
- ✓ Patella lusatiae (Cke.) Seaver
- ✓ Patella miniata (Clem.) Seaver
- ✓ Patella paludosa (Boud.) Seaver
- ✓ Patella scutellata (L.) Morg.
- ✓ Patella setosa (Nees) Seaver
- ✓ Patella umbrorum (Fr.) Seaver

Paxina

- ✓ Paxina acetabulum (L.) Kuntze
- ✓ Paxina fuscicarpa (Gerard) Seaver
- ✓ Paxina hispida (Schaeff.) Seaver
- ✓ Paxina macropus (Clements) Seaver
- ✓ Paxina subclavipes (Phill. & Ellis) Seaver
- ✓ Paxina sulcata (Pers.) Kuntze

Peckiella

Peckiella lateritia (Fr.) Maire
Peckiella viridis (A. & S.) Sacc.

Pezicula

Pezicula acericola Pk.
Pezicula carnea (Cke. & Ell.) Rehm.
Pezicula rubi (Lib.) Niessl.

Peziza

Peziza abietina Pers.
Peziza badia Pers.
Peziza brunneoatra Desm.
Peziza celtica (Boud.) Kanouse
Peziza clypeolata Schw.
Peziza repanda Pers.
Peziza succosa Berk.
Peziza venosa Pers.
Peziza vesiculosa Bull.
Peziza violacea Pers.

Phialea

Phialea crocea (Schw.) Sacc.

Phyllachora

Phyllachora lespedezae (Schw.) Sacc.
Phyllachora vulgata Theiss. & Syd.
Phyllachora wilsoni Orton

Phyllactinia

Phyllactinia corylea (Pers.) Karst.

Physalospora

Physalospora cydoniae Arnaud
Physalospora rhododendri (Den.) Sacc.
Physalospora viscosa (Cke. & Ell.) Sacc.

Plectania

Plectania coccinea (Scop.) Fckl.
Plectania floccosa (Schw.) Seaver
Plectania occidentalis (Schw.) Seaver

Podostroma

Podostroma alutaceum (P. ex Fr.) Atk.

Polycephalomyces

Polycephalomyces panosus Mains

Propolis

Propolis faginea (Schrad.) Karst.

Propolis leonis (Tul.) Rehm.

Pseudoplectania

Pseudoplectania fulgens (Pers.) Fckl.

Pseudoplectania nigrella (Pers.) Fckl.

Rhizina

Rhizina inflata Schaeff. ex Karst.

Rundulata

Rhytisma

Rhytisma acerinum Fr.

Rhytisma decolorans Fr.

Rhytisma punctatum Pers. ex Fr.

Rhytisma salicinum P. ex Fr.

Rhytisma vaccinii Fr.

Rosellinia

Rosellinia clavariae (Tul.) Winter

Rosellinia subiculata (Schw.) Sacc.

Rutstroemia

Rutstroemia macrospora (Pk.) Kanouse

Rutstroemia nebulosa (Cke.) Kauff. & Kanouse

Sarcosoma

Sarcosoma carolinianum Durand

Schizoxylon

Schizoxylon insigne (De Not.) Rehm.

Sclerotinia

Sclerotinia fructicola (Wint.) Rehm.
Sclerotinia tuberosa (Hedw. ex Fr.) Fckl.

Scodellina

Scodellina leporina (Batsch) S. F. Gray

Scoleconectria

Scoleconectria balsamea (Cke. & Pk.) Seaver

Scorias

Scorias spongiosa Schw.

Spathularia

Spathularia clavata (Schaff.) Sacc.
Spathularia velutipes Cke. & Farl.

Taphrina

Taphrina caerulescens (M. & D.) Tul.
Taphrina filicina Rostrup
Taphrina polystichi Mix
Taphrina potentillae (Farl.) Johns.
Taphrina purpurascens (E. & E.) Robinson

Trichoglossum

Trichoglossum farlowi (Cke.) Durand
Trichoglossum hirsutum var. heterosporum Mains
Trichoglossum hirsutum var. hirsutum Mains
Trichoglossum hirsutum var. irregulare Mains
Trichoglossum hirsutum (Pers.) Bond var. longisporum
(Tai) Mains
Trichoglossum hirsutum var. multiseptatum Mains
Trichoglossum octapartitum Mains
Trichoglossum variable (Durand) Nannfeldt
Trichoglossum walteri (Berk.) Durand

Tryblidium

Tryblidium calyciforme Reb.

Tuber

Tuber separans Gilkey

Tympanis

Tympanis conspersa Fr.

Uncinula

Uncinula salicis (DC.) Wint.

Ustulina

Ustulina vulgaris Pers.

Valsa

Valsa abietis Fr.

Valsa delicatula C. & E.

Venturia

Venturia orbicula (Sw.) C. & P.

Vibrissea

Vibrissea truncorum (A. & S.) Fr.

Wynnea

Wynnea americana Thaxter

Xylaria

Xylaria castorea Berk.

Xylaria cornu-damae (Schw. ex Fr.) Berk.

Xylaria cubensis Mont.

Xylaria digitata Grev.

Xylaria hypoxylon (L. ex Fr.) Grev.

Xylaria ianthino-velutina Mont.

Xylaria persicaria (Sz. ex Fr.) Curt.

Xylaria polymorpha (P. ex Fr.) Grev.

Xylaria tentaculata Rav. ap. Berk.

USNPS — GRSM

VEG. MGT

4. FUNGI IMPERFECTI

Alatospora

Alatospora acuminata Ingold.
Alatospora constricta Dyko

Articulospora

Articulospora tetracladia Ing.

Asteroma

Asteroma lactucae Davis

Botrytis

Botrytis cinerea Pers.

Briosia

Briosia azaleae (Pk.) Dearn.

Camarosporium

Camarosporium robiniae (Westd.) Sacc.

Casaresia

Casaresia sphagnorum Frag.

Cercospora

Cercospora atromaculans Ell. & Ev.
Cercospora boehmeriae Pk.
Cercospora cercidicola Ellis
Cercospora circumscissa Sacc.
Cercospora diodiae-virginianae Atk.
Cercospora diospyri Thüm.
Cercospora effusa (B. & C.) Ellis
Cercospora elephantopi E. & E.
Cercospora erythrogena Atk.
Cercospora granuliformia E. & H.
Cercospora halesiae Dearness
Cercospora kalmiae E. & E.
Cercospora lobeliaecola Solheim
Cercospora rhoina Cke. & Ell.
Cercospora smilacina Sacc.
Cercospora smilacis Thüm.
Cercospora viticola (Ces.) Sacc.

Cercosporidium

Cercosporidium gnaphaliaceae (Cke.) Dearness

Cladosporium

Cladosporium epiphyllum (P.) Fr.

Cladosporium herbarum (Pers.) Lk.

Clavariopsis

Clavariopsis aquatica De Wild.

Clavatospora

Clavatospora longibrachiata (Ing.) Nilss.

Clavatospora stellata (Ing. & Cox) Nilss.

Coccospora

Coccospora aurantiaca Wallr.

Colletotrichum

Colletotrichum Trillii Tehon

Coryneum

Coryneum rhododendri Schw.

Coryneum triseptatum Pk.

Cryptostictis

Cryptostictis mariae (Clint.) Sacc.

Culicidospora

Culicidospora aquatica Pet.

Cylindrosporium

Cylindrosporium acerinum (Pk.) Dearn. & House

Cylindrosporium hiemalo Higgins

Cylindrosporium saccharinum Ell. & Ev.

Dactylium

Dactylium dendroides Bull. ex Fr.

Darluca

Darluca filum (Buv.) Cast.

Dendrospora

Dendrospora erecta Ing.

Discosia

Discosia elliptica Fres.

Dothiorella

Dothiorella mali var. fructus Dearness

Exosporium

Exosporium tiliiae Link

Flagellospora

Flagellospora curvula Ing.

Fontanospora

Fontanospora alternibrachiata Dyko

Fontanospora eccentrica (Pet.) Dyko

Fusicladium

Fusicladium depressum (B. & Br.) Sacc.

Fusicladium robiniae Shear

Geniculospora

Geniculospora gigantea (Iqbal) Dyko

Geniculospora inflata (Ing.) Nilss.

Gibellula

Gibellula arenearum (Schw.) Syd.

Gibellula pulchra (Sacc.) Cav.

Gloeosporium

Gloeosporium illicis Dearness

Gloeosporium papulatum Dearness

Gonatobotryum

Gonatobotryum maculicola (Wint.) Sacc.

Graphium

Graphium hamamelidis van Hook

Heliscus

Heliscus Lugdunensis Sacc. & Ther.

Illosporium

Illosporium caespitosum El. & Ev.

Isaria

Isaria farinosa (Dicks.) Fr.

Isariopsis

Isariopsis clavispora (B. & C.) Sacc.

Lateriramulosa

Lateriramulosa uniinflata Mat.

Lemmoniera

Lemmoniera aquatica De. Wild.
Lemmoniera filiformis Pet.
Lemmoniera pseudofloscula Dyko
Lemmoniera terrestris Tubaki

Leptothyrium

Leptothyrium foraminulatum Sacc. & Ell.

Lunulospora

Lunulospora curvula Ing.

Macrophoma

Macrophoma phacidiella (C. & E.) Berk. & Vogl.

Margaritispora

Margaritispora monticola Dyko

Marssonina

Marssonina populi (L.) Sacc.

Monochaetia

Monochaetia camptosperma (Pk.) Sacc.

Monochaetia desmazierii Sacc.

Mycocentrospora

Mycocentrospora acerina (Hart.) Deighton

Mycocentrospora filiformis (Great.) Iqbal

Myxosporium

Myxosporium nitidum B. & C.

Oospora

Oospora rhododendri

Papulaspora

Papulaspora candida Sacc.

Pestalotia

Pestalotia macrotricha Klebh.

Phlyctaena

Phlyctaena tiliae Dearness

Phyllosticta

Phyllosticta convallariae Pers.

Phyllosticta fragaricola Desm. & Rob.

Phyllosticta hamamelidis (Cke.)

Phyllosticta maxima Ell. & Ev.

Phyllosticta minima (B. & C.) E. & E.

Phyllosticta minutissima E. & E.

Phyllosticta nyssae Cke.

Phyllosticta smilacina (Pk.) Dearn.

Phyllosticta solitaria E. & E.

Phyllosticta taurica R. Maire

Phyllosticta viticola (B. & C.) Thüm.

Piggotia

Piggotia fraxini Berk. & Curt.

Pleurocolla

Pleurocolla compressa (Ell. & Ever.) Diehl

Polythrincium

Polythrincium trifolii Kze.

Pseudographium

Pseudographium hispidulum (Ell.) Jacz.

Ramularia

Ramularia oxalidis Farlow

Ramularia stellariae n. sp. (ined.)

Scorpiosporium

Scorpiosporium chaetocladium (Ing.) Dyko

Scorpiosporium gracile (Ing.) Iqbal

Scorpiosporium patulum (Marv. & Marv.) Dyko

Sepedonium

Sepedonium chrysospermum Bull. ex Fr.

Septogloeum

Septogloeum profusum Ell. & Ever.

Septoria

Septoria acerina Pk.
Septoria betulicola Pk.
Septoria cacaliae Ell. & Kellerm.
Septoria cornicola Desm.
Septoria dearnessii Ell. & Ev.
Septoria diervillae E. & E.
Septoria hyalina E. & E.
Septoria hyalina E. & E. var. ostiolata
Septoria pellucida Bubak & Dearness
Septoria podophylline Pk.
Septoria rubi West
Septoria rubi var. pallide Ell. & Holw.
Septoria smilacinae E. & M.
Septoria speculariae B. & E.
Septoria trillii Pk.
Septoria viride-tingens M. A. Curtis

Sphaeronema

Sphaeronema pruinosa Peck

Sphaeropsis

Sphaeropsis ellisii Sacc.

Sporotrichum

Sporotrichum quercuum (Thüm.) Sacc.

Sproocybe

Sproocybe rhois (Berk. & Curt.) Sacc.

Stilbella

Stilbella acerina Overholts

Taeniospora

Taeniospora gracilis Marv.

Tetrachaetum

Tetrachaetum elegans Ing.

Triscelophorus

Triscelophorus acuminatus Nawawi

Triscelophorus monosporus Ing.

Tubercularia

Tubercularia vulgaris Tode ex Fr.

Varicosporium

Varicosporium delicatum Iqbal

Varicosporium elodeae Kegel

Varicosporium giganteum Crane

5. USTILAGINALES

Urocystis

Urocystis kmetiana Magn.

Ustilago

Ustilago avenae (Pers.) Jen.

Ustilago residua Clinton

6. UREDINALES

Cerotelium

Cerotelium dicentrae (Trel.) Mains & And.

Chrysomyxa

Chrysomyxa roanensis Arth.

Chrysomyxa weirii Jackson

Coleosporium

Coleosporium campanulae (Pers.) Lev.

Coleosporium carneum (Bosc.) Jackson

Coleosporium elephantopodis (Schw.) Thüm.

Coleosporium helianthi (Schw.) Arth.

Coleosporium inconspicuum (Long) Hedge, & Long

Coleosporium pinicola Arth.

Coleosporium solidaginis (Schw.) Thüm.

Coleosporium vernoniae B. & C.

Cronartium

Cronartium quercuum (Berk.) Miyabe

Cronartium ribicola Fischer

Frommea

Frommea obtusa (Strauss) Arth.

Gymnoconia

Gymnoconia peckiana (Howe) Trotter

Gymnosporangium

Gymnosporangium clavipes C. & P.

Gymnosporangium globosum Farl.

Gymnosporangium juniperi-virginianae Schw.

Holwaya

Holwaya gigantea (Pk.) Durand

Kuehneola

Kuehneola uredinia (Lk.) Arth.

Kunkelia

Kunkelia nitens (Schw.) Arth.

Melampsoropsis

Melampsoropsis roanensis Arth.

Milesia

Milesia marginalis Faull & Wats.

Milesia polypodophila (Bell) Faull

Phragmidium

Phragmidium americanum (Pk.) Diet.

Puccinia

Puccinia andropogonis Schw.

Puccinia andropogonis gerardiae (Pk.) Arth.

Puccinia argentata (Schultz) Winter

Puccinia atropuncta P. & C.

Puccinia bolleyana Sacc.

Puccinia caricis (Schum.) Schroet.

Puccinia caricis grossulariata Arth.

Puccinia caricis uniporula (Orton) Arth.

Puccinia circaeae Pers.

Puccinia claytoniata (Schw.) Pk.

Puccinia coronata Cda.

Puccinia cyperi Arth.

Puccinia ellisiana Thüm.

Puccinia extensicola oenotherae (Mont.) Arth.

Puccinia extensicola Plowr.

Puccinia extensicola solidaginis (Schw.) Arth.

Puccinia gentianae (Str.) Lk.

Puccinia graminis phleipratense (E. & H.) S. & P.

Puccinia grossulariae (Schum.) Lagerh.

Puccinia helianthi Schw.

Puccinia heucherae (Schw.) Diet.

Puccinia hieracii (Schum.) Mart.

Puccinia investita Schw.

Puccinia marylandica Lindr.

Puccinia menthae Pers.

Puccinia mesomajalis B. & C.

Puccinia pimpinellae (Str.) Mart.

Puccinia podophylli Schw.

Puccinia polygoni-amphibii Pers.

Puccinia rubigo-vera (DC.) Wint.

Puccinia rubigo-vera impatientis (Arth.) Mains

Puccinia silphii Schw.
Puccinia smilacis Schw.
Puccinia tenuis Burr.
Puccinia verbesinae Schw.
Puccinia vernoniae Schw.
Puccinia violae (Schum.) DC.
Puccinia windsoriorae Schw.

Pucciniastrum

Pucciniastrum agrimoniae (Schw.) Tranz.
Pucciniastrum americanum (Farl.) Arth.
Pucciniastrum hydrangeae (B. & C.) Arth.
Pucciniastrum pyrolae (Pers.) Schroet.
Pucciniastrum pustulatum (Pers.) Diet.

Tranzschelia

Tranzschelia pruni-spinosae (Pers.) Diet.

Uredinopsis

Uredinopsis macrosperma (Cke.) Magn.
Uredinopsis mirabilis (Pk.) Magn.

Uromyces

Uromyces andropogonis Tracy
Uromyces caladii (Schw.) Farl.
Uromyces gentianae Arth.
Uromyces hedysari-paniculati (Schw.) Farl.
Uromyces holwayi Lagerh.
Uromyces houstoniatus (Schw.) Sheldon
Uromyces hyperici (Spreng.) Curt.
Uromyces junci-effusi Syd.
Uromyces lespedezae-procumbentis (Schw.) Curtis
Uromyces rudbeckiae A. & H.
Uromyces rynchosporeae Ellis
Uromyces silphii (Burr.) Arth.
Uromyces spermacoces (Schw.) Curt.

Uropyxis

Uropyxis amorphae (Curtis) Schroet.

7. SEPTOBASIDIALES

Septobasidium

Septobasidium cokeri Couch
Septobasidium curtisii (B. & Desm.) Couch
Septobasidium hesleri Couch
Septobasidium pseudopedicellatum Burt

8. JELLY- OR TREMELLOID FUNGI

Auricularia

Auricularia auricula-judae (Linn.) Schroet.

Calocera

Calocera cornea (Fr.) Link

Calocera viscosa (Fr.)

Dacrymyces

Dacrymyces deliquescens Duby

Dacrymyces palmatus (Schw.) Bres.

Ditiola

Ditiola radicata Fr.

Exidia

Exidia nucleata (Schw.) Burt

Exidia recisa Fr.

Exidia spiculosa (Gray) Somm.

Guepinia

Guepinia spathularia (Schw.) Fr.

Guepiniopsis

Guepiniopsis torta (Fr.) Pat.

Phleogena

Phleogena decorticata (Schw.) Martin

Platyglea

Platyglea peniophorae Bourd. & Galz.

Pseudohydnum

Pseudohydnum gelatinosum (Fr.) Karsten

Sebacina

Sebacina incrustans (Pers.) Tul.

Tremella

Tremella albida Huds.
Tremella concrescens (Schw.) Burt
Tremella foliacea Fr.
Tremella mesenterica Fr.
Tremella reticulata (Berk.) Farlow
Tremella tubercularia Berk.

Tremellodendron

Tremellodendron candidum (Schw.) Atk.
Tremellodendron cladonia (Schw.) Burt
Tremellodendron merismatoides (Schw.) Burt
Tremellodendron pallidum (Schw.) Burt
Tremellodendron tenax (Schw.) Burt

9. THELEPHOROID AND CORTICIOID FUNGI

(Edited by Glenn W. Freeman)

Aleurodiscus

Aleurodiscus amorphus (Fr.) Schroet.
Aleurodiscus candidus (Schw.) Burt.

Amylocorticium

Amylocorticium cebennense (Bourd.) Pouz.

Asterostroma

Asterostroma ochroleucum Bres.

Athelia

Athelia acrospora Jülich
Athelia decepiens (Höhn. & Litsch.) J. Erikss.

Botryobasidium

Botryobasidium conspersum J. Erikss.
Botryobasidium laeve (J. Erikss.) Parm.
Botryobasidium subcoronatum (Höhn & Litsch.) Donk

Botryohypochnus

Botryohypochnus isabellinus (Fr.) J. Erikss.

Byssocorticium

Byssocorticium atrovirens (Fr.) Bond. & Sing.

Ceratobasidium

Ceratobasidium plumbeum Martin

Chaetoderma

Chaetoderma luna (Rom. ex Rog. & Jacks.) Parm.

Clavulicium

Clavulicium macounii (Burt) J. Erikss.

Columnocystis

Columnocystis ambigua (Pk.) Pouz.

Coniophora

Coniophora arida (Fr.) Karst.
Coniophora olivacea (Fr. ex Fr.) Karst.
Coniophora olivascens (Berk. & Curt.) Mass.
Coniophora puteana (Schw.) Fr.

Corticium

Corticium albido-carneum (Schw.) Mass.
Corticium octosporum Schroet.
Corticium stevensii Burt
Corticium sulphureum (Pers. ex Fr.) Fr.

Cyphella

Cyphella cupulaeformis Berk. & Rav.
Cyphella fasciculata (Schw.) Berk. & Curt.

Dacryobolus

Dacryobolus sudans (Fr.) Fr.

Exobasidium

Exobasidium vaccinii (Fckl.) Wor.

Gloeocystidiellum

Gloeocystidiellum citrinum (Pers.) Donk
Gloeocystidiellum convolvens (Karst.) Donk
Gloeocystidiellum lactescens (Berk.) Boid.
Gloeocystidiellum porosum (Berk. & Curt.) Donk

Hymenochaete

Hymenochaete agglutinans Ell.
Hymenochaete cervina B. & C.
Hymenochaete corrugata (Fr.) Lev.
Hymenochaete curtisii (Berk.) Morgan
Hymenochaete fuliginosa (Pers.) Bres.
Hymenochaete rubiginosa Dickson ex Lev.
Hymenochaete spreta Pk.
Hymenochaete tabicina (Sow.) Lov.

Hyphoderma

Hyphoderma heterocystidium (Burt) Donk
Hyphoderma litschaueri (Burt) Erikss. & Strid.
Hyphoderma mutatum (Peck) Donk
Hyphoderma setigerum (Fr.) Donk

Hyphodontia

Hyphodontia abieticola (Bourd. & Galz.) J. Erikss.
Hyphodontia alutaria (Burt.) J. Erikss.
Hyphodontia arguta (Fr.) J. Erikss.
Hyphodontia barba-jovis (Fr.) J. Erikss.
Hyphodontia hastata (Litsch.) J. Erikss.

Hypochnus

Hypochnus fumosus Fr.
Hypochnus rubiginosus Bres.

Laeticorticium

Laeticorticium appalachiensis Burd. & Larsen
Laeticorticium minnsiae (Jacks.) Donk

Leucogyrophana

Leucogyrophana mollusca (Fr.) Pouz.

Lindtneria

Lindtneria trachyspora (Bourd. & Galz.) Pilát

Merulius

Merulius tremellosus (Schrad.) Fr.

Metulodontia

Metulodontia nivea (Karst.) Parm.
Metulodontia queletii (Bourd. & Galz.) Parm.

Mycoacia

Mycoacia fusco-atra (Fr. ex Fr.) Donk
Mycoacia uda (Fr.) Donk

Peniophora

Peniophora abulum Atk. & Burt
Peniophora cinerea (Fr.) Cke.
Peniophora crassa Burt ex Peck
Peniophora prominens Jacks. & Dearn.
Peniophora septocystidia Burt

Phanerochaete

Phanerochaete affinis (Burt) Parm.
Phanerochaete chrysorhizon (Torrey in Eaton)
Bud. & Gilb.
Phanerochaete burtii (Rom.) Parm.
Phanerochaete filamentosa (Berk. & Curt.) Burdsall
Phanerochaete sanguinea (Fr.) Parm.
Phanerochaete velutina (Pers.) Parm.
Phanerochaete viticola (Schw.) Parm.

Phlebia

Phlebia chrysocrea (B. & C.) Burd.
Phlebia radiata Fr.

Phlyctibasidium

Phlyctibasidium polyporoideum (B. & C.) Jülich

Plicatura

Plicatura aurea (Fr.) Pouz.

Resinicium

Resinicium bicolor (Fr.) Parm.

Scytinostroma

Scytinostroma galactinum (Fr.) Donk

Sistotrema

Sistotrema confluens Fr.
Sistotrema raduloides (Karst.) Donk

Solenia

Solenia anomala (Pers.) Fckl.
Solenia candida Pers.
Solenia endophila (Ces.) Fr.
Solenia fasciculata Pers.

Sparassis

Sparassis crispa Fr.
Sparassis spathulata Schw.

Stereum

Stereum abietinum Pers.
Stereum ambiguum Peck
Stereum burtianum Pk.
Stereum chailetti Fr.
Stereum duriusculum Bres.
Stereum erumpens Burt
Stereum fasciatum Schw.
Stereum frustulosum Fr.
Stereum fuscum (Schrad.) Qué1.
Stereum gausapatum (Pers.) Fr.
Stereum hirsutum Fr.
Stereum lobatum (Kuntze) Fr.
Stereum ochraceoflavum Schw.
Stereum pallidum (Pers.) Lloyd
Stereum purpureum Pers.
Stereum radiatum Pk.
Stereum rameale Schw.
Stereum ravenelii Berk. & Curt.
Stereum rugosiusculum B. & C.
Stereum rugosum Pers.
Stereum sanguinolentum A. & S.
Stereum sericeum Fr.
Stereum subpileatum B. & C.
Stereum sulcatum Burt
Stereum versiforme B. & C.

Thelephora

Thelephora albidobrunnea Schw.
Thelephora anthocephala Bull. ex Fr.
Thelephora caryophyllea Schaeff. ex Fr.
Thelephora intybacea (Pers.) Fr.
Thelephora lutosa Schw.
Thelephora multipartita Schw.
Thelephora palmata Fr.
Thelephora terrestris (Ehrb.) Fr.
Thelephora vialis Schw.

Tomentella

Tomentella basidiofusca Bourd. & Galz.
Tomentella griseoviolacea Litsch.
Tomentella olivascens (Berk. & Curt.) Bourd & Galz.
Tomentella rubiginosus (Bres.) Maire

Trechispora

Trechispora farinacea (Pers. ex Fr.) Liberta
Trechispora mollusca (Pers. ex Fr.) Liberta
Trechispora polyporoidea (B. & C.) Liberta

Tubulicrinis

Tubulicrinis accedens (Bourd. & Galz.) Donk
Tubulicrinis glebosus (Bres.) Donk

Vararia

Vararia effuscata (Cooke & Ellis) Rogers & Jacks.
Vararia investiens (Schw.) Karst.

Vuilleminia

Vuilleminia acerinus (Fr.) Parm.

Xenasma

Xenasma praeteritum (Jacks.) Donk

Xenasmatella

Xenasmatella tulasnelloides (Höhn. & Litsch.) Oberw.

10. HYDNOID FUNGI

Bankera

Bankera fuligineo-alba (Schm.) Coker & Beers

Climacodon

Climacodon septentrionalis (Fr.) Karst.

Hericium

Hericium coralloides (Scop.) Pers.

Hericium erinaceus (Bull.) Pers.

Hericium ramosum (Bull.) Letellier

Hydnellum

Hydnellum aurantiacum (A. & S.) Karst.

Hydnellum complicatum Banker

Hydnellum cyaneotinctum (Pk.) Banker

Hydnellum diabolus Banker

Hydnellum floriforme (Schaeff.) Banker

Hydnellum scleropodium Harrison

Hydnellum scrobiculatum (Fr.) Banker

Hydnellum velutinum (Fr.) Banker

Hydnellum zonatum (Batsch) Karst.

Hydnellum zonatum forma vespertillo Coker & Beers

Hydnum

Hydnum albidum Pk.

Hydnum albo-magnum Banker

Hydnum repandum L. ex Fr.

Hydnum rufescens Fr.

Irpex

Irpex cinnamomeus (Schw.) Fr.

Irpex farinaceus Fr.

Odontia

Odontia arguta (Fr.) Quél.

Odontia lactea Karst.

Odontia wrightii B. & C.

Phellodon

Phellodon alboniger (Pk.) Banker
Phellodon amicus (Qué1.) Banker
Phellodon ellisianus Banker
Phellodon graveolens (Delast.) Banker
Phellodon putidus (Atk.) Banker
Phellodon tomentosus (L.) Banker

Phlebia

Phlebia albida Fr.
Phlebia radiata Fr.

Sarcodon

Sarcodon amarescens Qué1.
Sarcodon atroviridis (Morg.) Banker
Sarcodon cristatus (Bres.) Banker
Sarcodon excentricus Coker & Beers
Sarcodon fennicus Karst.
Sarcodon fuligineo-violaceus (Kalchbr.) Qué1.
Sarcodon imbricatus (L.) Karst.
Sarcocon murrillii Banker
Sarcodon piperatus Coker

Sistotrema

Sistotrema confluens Pers.

Steccherinum

Steccherinum adustum (Fr.) Banker
Steccherinum laeticolor (B. & C.) Banker
Steccherinum ochraceum (Pers.) S. F. Gray
Steccherinum rhois (Schw.) Banker

11. CLAVARIOID FUNGI

(Edited by R. H. Petersen)

Aphelaria

Aphelaria tuberosa (Grev.) Corner

Clavaria

Clavaria acuta Fr.
Clavaria asperula Atk.
Clavaria atroumbrina Corner
Clavaria fumosa Fr.
Clavaria fuscata Oudem.
Clavaria incarnata Weinm.
Clavaria rubicundula Leathers
Clavaria subcaespitosa Pk.
Clavaria subfalcata Atk.
Clavaria vermicularis Fr.
Clavaria zollingeri Lev.

Clavariadelphus

Clavariadelphus Cokeri Wells & Kempton
Clavariadelphus pistillaris (Fr.) Donk
Clavariadelphus truncatus (Quél.) Donk

Clavicornia

Clavicornia pyxidata (Fr.) Doty

Clavulina

Clavulina castaneopes (Atk.) Petersen
Clavulina cristata (Fr.) Schroet.
Clavulina mutabilis Pet.
Clavulina rugosa (Fr.) Schroet.

Clavulinopsis

Clavulinopsis amoena (Zoll. & Mor.) Corner
Clavulinopsis appalachiensis (Coker) Corner
Clavulinopsis aurantio-cinnabarina (Schw.) Corner
Clavulinopsis corniculata (Fr.) Corner
Clavulinopsis dichotoma (God.) Corner
Clavulinopsis filipes Corner
Clavulinopsis fusiformis (Fr.) Corner
Clavulinopsis holmskjoldii (Oudem.) Corner

Clavulinopsis laeticolor (Berk. & Curt.) Pet.
Clavulinopsis miniata (Berk.) Corner
Clavulinopsis subaustralis Pet. & Olexia
Clavulinopsis subtilis (Fr.) Corner
Clavulinopsis umbrinella (Sacc.) Corner

Lachnocladium

Lachnocladium semivestitum B. & C.

Lentaria

Lentaria byssiseda Corner

Macrotyphula

Macrotyphula juncea (Fr.) Berthier

Multiclavula

Multiclavula mucida (Fr.) Pet.

Ramaria

Ramaria apiculata var. apiculata
Ramaria apiculata var. brunnea Pet.
Ramaria apiculata var. compacta Pet.
Ramaria botrytis (Fr.) Rick
Ramaria botrytoides (Pk.) Corner
Ramaria conjunctipes (Coker) Corner
Ramaria crispula (Fr.) Quél.
Ramaria decurrens (Pers.) Corner
Ramaria fennica (Karst.) Rick
Ramaria flava var. subtilis (Coker) Corner
Ramaria flavo-brunnescens (Atk.) Corner
Ramaria formosa (Fr.) Quél.
Ramaria gelatinosa (Coker) Corner
Ramaria gracilis (Fr.) Quél.
Ramaria grandis (Pk.) Corner
Ramaria guyanensis (Pat.) Corner
Ramaria holorubella (Atk.) Corner
Ramaria invallii (Cott. & Wakef.) Donk
Ramaria longicaulis (Pk.) Corner
Ramaria murrillii (Coker) Corner
Ramaria obtusissima (Pk.) Corner
Ramaria ochraceo-virens (Jungh.) Donk
Ramaria rubella (Schaeff. ex Pers.) Pet.
Ramaria rufescens (Fr.) Corner
Ramaria secunda (Berk.) Corner
Ramaria strasseri (Bres.) Corner

Ramaria stricta (Fr.) Quél.
Ramaria subbotrytis (Coker) Corner
Ramaria subbotrytis var. *intermedia* (Coker) Corner
Ramaria subfennica (Coker) Corner
Ramaria subspinulosa (Coker) Corner
Ramaria suecica (Fr.) Donk
Ramaria verna (Coker) Corner
Ramaria xanthosperma (Pk.) Corner

Ramariopsis

Ramariopsis crocea (Fr.) Corner
Ramariopsis flavescens Pet.
Ramariopsis kunzei (Fr.) Corner
Ramariopsis kunzei var. *favreae* Corner
Ramariopsis lentofragilis (Atk.) Pet.
Ramariopsis minutula (Bourd. & Galz.) Pet.
Ramariopsis pseudosubtilis Pet.
Ramariopsis pulchella (Boud.) Corner
Ramariopsis tenui-ramosa Corner

Scytinopogon

Scytinopogon angulispora (Pat.) Corner

12. POLYPOROID FUNGI

(Edited by Brian S. Luther)

Albatrellus

Albatrellus caeruleoporus (Peck) Pouzar
Albatrellus confluens (Alb. & Schw. ex Fr.)
Kotl. & Pouz.
Albatrellus cristatus (Schaeff ex Fr.) Kotl. & Pouz.
Albatrellus peckianus (Cooke) Niemelä
Albatrellus pes-caprae (Pers. ex Fr.) Pouzar

Antrodia

Antrodia albida (Fr.) Donk
Antrodia crustulina (Bres.) Ryv.
Antrodia heteromorpha (Fr. ex Fr.) Donk
Antrodia malicola (B. & C.) Donk
Antrodia serialis (Fr.) Donk
Antrodia semisupina (B. & C.) Ryvarden
Antrodia xantha (Fr.) Ryv.

Bjerkandera

Bjerkandera adusta (Willd. ex Fr.) Karsten
Bjerkandera fumosa (Pers. ex Fr.) Karsten

Boletopsis

Boletopsis grisea (Peck) Bond. & Sing.

Bondarzewia

Bondarzewia berkeleyi (Fr.) Bond. & Sing.

Ceriporia

Ceriporia purpurea (Fr.) Donk

Cerrena

Cerrena unicolor (Bull. ex Fr.) Murrill

Climacocystis

Climacocystis borealis (Fr.) Kotl. & Pouz.

Coltricia

Coltricia cinnamomea (Jacq. ex S. F. Gray) Murrill
Coltricia focicola (B. & C.) Murrill
Contricia montagnei (Fr. ex Mont.) Murrill
Coltricia perennis (L. ex Fr.) Murrill

Coltriciella

Coltriciella dependens (B. & C.) Murrill

Coriolus

Coriolus hirsutus (Wul. ex Fr.) Quél.
Coriolus pubescens (Schum. ex Fr.) Quél.
Coriolus versicolor (L. ex Fr.) Quél.

Cryptoporus

Cryptoporus volvatus (Peck) Hubbard

Cycloporus

Cycloporus greenei (Berk.) Murrill

Daedalea

Daedalea ambigua Berk.
Daedalea quercina L. ex Fr.

Daedaleopsis

Daedaleopsis confragrosa (Bolt. ex Fr.) Schroet.

Datronia

Datronia mollis (Sommerf. ex Fr.) Donk

Fistulina

Fistulina hepatica (Schaeff.) Fr.

Fomes

Fomes fomentarius (L. ex Fr.) Fr.
Fomes ohioensis (Berk.) Murrill

Fomitopsis

Fomitopsis cajanderi (Karst.) Kotl. & Pouz.
Fomitopsis pinicola (Swartz ex Fr.) Karst.
Fomitopsis rosea (Alb. & Schw. ex Fr.) Karst.
Fomitopsis scutellata (Schw.) Bond. & Sing.

Ganoderma

Ganoderma applanatus (Pers. ex S. F. Gray) Donk
Ganoderma lobatum (Schw.) Atk.
Ganoderma lucidum (Curt. ex Fr.) Karst.
Ganoderma tsugae Murrill

Globifomes

Globifomes graveolens (Schw.) Murrill

Gloeophyllum

Gloeophyllum sepiarium (Fr.) Karst.

Gloeoporus

Gloeoporus dichrous (Fr. ex Fr.) Bres.
Gloeoporus pannocinctus (Romell) Eriksson

Grifola

Grifola frondosa (Dicks. ex Fr.) S. F. Gray
Grifola umbellata (Pers. ex Fr.) Pilát

Hapalopilus

Hapalopilus gilvus (Schw.) Murrill
Hapalopilus rutilans (Pers. ex Fr.) Karst.

Hirschioporus

Hirschioporus abietinus (Pers. ex Fr.) Donk
Hirschioporus pargamenus (Fr.) Bond. & Sing.

Incrustoporia

Incrustoporia semipileata (Peck) Donk
Incrustoporia subincarnata (Peck) Domanski

Inonotus

Inonotus andersonii (E. & E.) Cerny
Inonotus cuticularis (Bull. ex Fr.) Karst.
Inonotus dryadeus (Pers. ex Fr.) Murrill
Inonotus hispidus (Bull. ex Fr.) Karst.
Inonotus radiatus (Sow. ex Fr.) Karst.
Inonotus rheades (Pers.) Karst.

Irpex

Irpex lacteus (Fr. ex Fr.) Fr.

Ischnoderma

Ischnoderma benzoinum (Wahl.) Karst.

Junghuhnia

Junghuhnia nitida (Pers. ex Fr.) Ryvarden

Laetiporus

Laetiporus sulphureus (Bull. ex Fr.) Murrill

Lenzites

Lenzites betulina (L. ex Fr.) Fries

Onnia

Onnia tomentosa (Fr.) Karst.
Onnia triqueter (Fr.) Imaz. apud Ito

Oxyporus

Oxyporus populinus (Schum. ex Fr.) Donk

Parmastomyces

Parmastomyces kravtzevianus (Bon. & Parm. apud Parm.)
Kotl. & Pouz.

Perenniporia

Perenniporia medulla-panus (Jacq. ex Fr.) Donk
Perenniporia pulchella
Perenniporia subacida (Peck) Donk

Phaeolus

Phaeolus schweinitzii (Fr.) Pat.

Phellinus

Phellinus ferreus (Pers.) Bourd. & Galz.
Phellinus ferruginosus (Schrad. ex Fr.) Pat.
Phellinus igniarius (L. ex Fr.) Quél.
Phellinus laevigatus (Fr.) Bourd. & Galz.
Phellinus nigricans (Fr.) Karst.
Phellinus pini (Brot. ex Fr.) Ames
Phellinus pomaceus (Pers. ex Gray) Maire
Phellinus punctatus (Fr.) Pilát
Phellinus robiniae (Murrill) Ames
Phellinus robustus (Karst.) Bourd. & Galz.
Phellinus viticola (Schw. ex Fr.) Donk
Phellinus zelandicus (Cooke) Donk

Piptoporus

Piptoporus betulinus (Bull. ex Fr.) Karst.

Polyporus

Polyporus arcularius Batsch ex Fr.
Polyporus brumalis Pers. ex Fr.
Polyporus floccopes Rostk.
Polyporus melanopus Pers. ex Fr.
Polyporus montagnei var. *greenii* (Berk.) Gilb.
Polyporus mori Poll. ex Fr.
Polyporus mutabilis Berk. & Curt.
Polyporus pinsitus Fr.
Polyporus robiniophila (Murrill) Lloyd
Polyporus squamosus Huds. ex Fr.
Polyporus sublividus Snell
Polyporus tapeitensis (Murrill) Greene
Polyporus varius Pers. ex Fr.

Poria

Poria albolutescens (Romell) Bourd. & Galz.
Poria alutacea Lowe
Poria cinerascens (Bres.) Sacc. & Syd.
Poria expansa (Desm.) Jahn
Poria gilvescens Bresadola
Poria humilis Murrill
Poria mutans (Peck) Peck
Poria myceliosa Peck
Poria oleagina Overh.

Poria oleracea Davidson & Lombard
Poria overholtsii Pilát
Poria radiculosa (Peck) Sacc.
Poria rancida Bres.
Poria spissa (Schw.) Cooke
Poria taxicola (Pers. ex Fr.) Bres.

Porodisculus

Porodisculus pendulus (Schw.) Murrill

Poronidulus

Poronidulus conchifer (Schw.) Murrill

Pseudofistulina

Pseudofistulina radicata (Schw.) Burdsall

Pycnopus

Pycnopus cinnabarinus (Jacq. ex Fr.) Karst.
Pycnopus sanguineus (L. ex Fr.) Murrill

Rigidoporus

Rigidoporus nigrescens (Bres.) Donk
Rigidoporus sanguinolentus (Alb. & Schw.) Donk
Rigidoporus undatus (Pers.) Donk

Schizopora

Schizopora paradoxa (Schrad. ex Fr.) Donk

Skeletocutis

Skeletocutis amorphus (Fr. ex Fr.) Kotl. & Pouz.

Spongipellis

Spongipellis spumeus (Sow. ex Fr.) Pat.

Trametes

Trametes cervina (Schw.) Bres.
Trametes variformis Peck

Tyromyces

Tyromyces albellus (Peck) Bond. & Sing.
Tyromyces balsameus (Peck) Murrill
Tyromyces caesius (Schrad. ex Fr.) Murrill
Tyromyces chioneus (Fr. ex Fr.) Karst.
Tyromyces croceus (Pers. ex Fr.) Lowe
Tyromyces fissilis (B. & C.) Donk
Tyromyces floriformis (Quél. apud Bres.) Bond. & Sing.
Tyromyces fragilis (Fr.) Donk
Tyromyces galactinus (Berk.) Bondartsev
Tyromyces guttulatus (Peck) Murrill
Tyromyces immitis (Peck) Bondartsev
Tyromyces minusculoides (Pilát) Bondartsev
Tyromyces spraguei (Berk. & Curt.) Murrill
Tyromyces tephroleucus (Fr.) Donk
Tyromyces undosus (Peck) Murrill

Wrightoporia

Wrightoporia lenta (Overh. & Lowe) Pouzar

13. BOLETOID FUNGI

(Edited by Carl B. Wolfe, Jr.)

Boletellus

Boletellus betula (Schw.) Gilbert
Boletellus chrysenteroides (Snell) Snell
Boletellus russellii (Frost) Gilbert

Boletus

Boletus affinis Pk.
Boletus affinis var. maculosus Pk.
Boletus alutaceus Morgan in Peck
Boletus atkinsonianus (Murr.) Sacc. & Trott.
Boletus auripes Pk.
Boletus bicolor var. subreticulatus Smith & Thiers
Boletus bicolor var. bicolor
Boletus bicolor var. borealis Smith & Thiers
Boletus brunneo-olivaceus Snell, Dick, & Hesler
Boletus chrysenteron Fr.
Boletus edulis Bull. ex Fr.
Boletus erythropus Fr.
Boletus firmus Frost
Boletus flammans Dick & Snell
Boletus fraternus Pk.
Boletus frostii Russell apud Frost
Boletus fulvus Pk.
Boletus glutinosipes Snell & Hesler
Boletus griseus Frost
Boletus illudens Peck
Boletus insuetus Smith & Thiers
Boletus luridae Shaeff. ex Fr.
Boletus longicurvipes Snell & Smith
Boletus melleoluteus Snell, Dick & Hesler
Boletus miniato-olivaceus Frost
Boletus miniato-olivaceus var. subluridus
(Murr.) Singer
Boletus morrisii Pk.
Boletus multipinctus Peck
Boletus nobilis Pk.
Boletus ornatipes Pk.
Boletus pallidus Frost
Boletus parvulus Snell
Boletus peckii Frost
Boletus piedmontensis Grand & Smith

Boletus pulverulentus Opat.
Boletus pulverulentus Opat. forma *reticulatus*
Snell, Dick, & Hesler
Boletus roxanae Frost
Boletus rubeus Frost
Boletus rubropictus Snell & Smith
Boletus satanus Lenz.
Boletus separans Pk.
Boletus speciosus Frost
Boletus subvelutipes Pk.
Boletus sullivantii B. & C. apud Mont.
Boletus variipes Pk.
Boletus vermiculosus Pk.
Boletus vermiculosoides Smith & Thiers

Gyrodon

Gyrodon merulioides (Schw.) Singer

Gyroporus

Gyroporus castaneus (Fries) Quélet
Gyroporus cyanescens (Fries) Quélet

Leccinum

Leccinum albellum (Pk.) Singer
Leccinum chromapes (Frost) Singer
Leccinum eximium (Pk.) Singer
Leccinum rubropunctum (Pk.) Singer
Leccinum rugosiceps (Pk.) Singer
Leccinum scabrum (Bull. ex Fr.) S. F. Gray
Leccinum scabrum var. *mutabilis* Pk.
Leccinum subglabripes (Pk.) Singer
Leccinum vulpinum Watling

Phylloporus

Phylloporus rhodoxanthus (Schw.) Bres. ssp.
rhodoxanthus

Porphyrellus

Porphyrellus fumosipes (Pk.) Snell
Porphyrellus gracilis (Pk.) Singer
Porphyrellus porphyrosporus (Fr. in Fr. & Hök)
Gilbert
Porphyrellus sordidus (Frost) Snell

Pulveroboletus

Pulveroboletus auriflammeus (B. & C.) Singer
Pulveroboletus auriporus (Pk.) Singer
Pulveroboletus caespitosus (Peck) Singer
Pulveroboletus ravenelii (B. & C.) Murrill

Strobilomyces

Strobilomyces confusus Singer
Strobilomyces floccopus Karsten

Suillus

Suillus albidipes (Peck) Singer
Suillus americanus (Peck) Snell in Slipp & Snell
Suillus brevipes (Pk.) Kuntze
Suillus granulatus (Fr.) Kuntze
Suillus hirtellus (Pk.) Kuntze
Suillus luteus (Fr.) Gray
Suillus pictus (Pk.) Smith & Thiers
Suillus pinorigidus Snell & Dick
Suillus piperatus (Bull. ex Fr.) Kuntze
Suillus placidus (Bonorden) Singer
Suillus punctipes (Pk.) Singer
Suillus rubinellus (Pk.) Singer
Suillus subaureus (Pk.) Snell
Suillus subluteus (Pk.) Snell in Slipp & Snell

Tylopilus

Tylopilus alboater (Schw.) Murrill
Tylopilus appalachiensis Singer
Tylopilus ballouii (Pk.) Singer
Tylopilus felleus (Fr.) Karsten
Tylopilus ferrugineus (Frost) Singer
Tylopilus ferrugineus ssp. vinaceogriseus Snell,
Dick & Hesler
Tylopilus indecisis (Pk.) Murrill
Tylopilus peralbidus (Snell & Beardslee) Murr.
Tylopilus plumbeoviolaceus (Snell) Singer
Tylopilus rubrobrunneus Mazzer & Smith
Tylopilus tabacinus (Pk.) Singer
Tylopilus umbrosus (Peck) Smith & Thiers

Xerocomus

Xerocomus badius (Fr.) Kuhn.
Xerocomus castanellus (Peck) Snell & Dick
Xerocomus parasiticus (Fr.) Quelet
Xerocomus squarrosoides (Snell & Dick) Singer
Xerocomus subtomentosus (L. ex Fr.) Quelet
Xerocomus truncatus Singer, Snell & Dick

14. CANTHARELLOID FUNGI

(Edited by R. H. Petersen)

Cantharellus

Cantharellus appalachiensis Petersen
Cantharellus cibarius Fr.
Cantharellus cinereus Fr.
Cantharellus cinnabarinus Schw.
Cantharellus ignicolor Petersen
Cantharellus infundibuliformis Fr.
Cantharellus lateritius (Berk.) Sing.
Cantharellus minor Peck
Cantharellus minor var. intensissima Petersen
Cantharellus odoratus (Schw.) Fr.
Cantharellus pallidipes Petersen

Craterellus

Craterellus caeruleofuscus Smith
Craterellus calyculus Berk.
Craterellus carolinianus Petersen
Craterellus cornucopioides L. ex Fr.
Craterellus fallax Smith
Craterellus hesleri Petersen
Craterellus subundulatus Pk.

Gloeocantharellus

Gloeocantharellus purpurascens (Hesl.) Sing.

Gomphus

Gomphus clavatus Pers. ex Gray
Gomphus floccosus (Schw.) Sing.
Gomphus kauffmanii (Smith) Petersen

15. AGARICOID FUNGI

(Overall list revised by L. R. Hesler in 1976)

Agaricus

(Edited by Alice Freeman)

Agaricus abruptibulbus Pk.
Agaricus argenteus Braendle in Peck
Agaricus auricolor Krieger sensu Smith
Agaricus campestris Fr.
Agaricus citrinidiscus Murr.
Agaricus cylindriceps var. aureus Murr.
Agaricus diminutivus Pk.
Agaricus placomyces Pk.
Agaricus pocillator Murr.
Agaricus rubribrunneus Murr.
Agaricus sylvaticus Vitt.

Agrocybe

Agrocybe acericola (Pk.) Singer
Agrocybe aggericola (Pk.) Singer
Agrocybe amara (Murr.) Singer
Agrocybe praecox (Fr.) Fayod
Agrocybe semiorbicularis (St. Amans) Fayod
Agrocybe sororia (Pk.) Singer

Amanita

(Edited by D. T. Jenkins)

Amanita abrupta Pk.
Amanita brunnescens Atk. var. brunnescens
Amanita brunnescens var. pallida Krieger
Amanita caesarea (Fr.) Schw.
Amanita chlorinosma (Austin) Lloyd
Amanita cineroconia Atk.
Amanita cineropannosa Bas
Amanita citrina (Schaeff. ex) S. F. Gray
Amanita cokeri (Gilb. & Kuhn.) Gilb.
Amanita cokeriana Singer
Amanita excelsa (Fr.) Kummer
Amanita farinosa Schw.
Amanita flavoconia Atk.
Amanita flavorubescens Atk.

Amanita frostiana (Pk.) Sacc.
Amanita fulva (Schaeff. ex) Pers.
Amanita gemmata (Fr.) Gill.
Amanita hesleri Bas
Amanita muscaria (Fr.) Hooker var. *muscaria*
Amanita muscaria var. *persicina* Jenkins
Amanita onusta (Howe) Sacc.
Amanita pantherina var. *multisquamosa* (Pk.)
 Jenkins
Amanita pantherina var. *velatipes* (Atk.) Jenkins
Amanita parcivolvata (Pk.) Gilb.
Amanita ravenelii (B. & C.) Sacc.
Amanita rhopalopus Bas
Amanita rubescens (Fr.) S. F. Gray
Amanita spissa (Fr.) Kummer
Amanita spreata Pk.
Amanita tephrea Bas (nom. prov.)
Amanita vaginata (Fr.) Vitt.
Amanita virosa (Fr.) Vitt.
Amanita volvata (Pk.) Martin
Amanita wellsii (Murr.) Sacc.

Anellaria

Anellaria sepulchralis (Berk.) Sing. (syn. -
Panaeolus solidipes Pk.)

Anthracophyllum

Anthracophyllum nigrofolium (Pk.)

Armillariella

Armillariella mellea (Fr.) Karsten
Armillariella tabescens (Fr.) Singer

Asterophora

Asterophora lycoperoides (Merat) Ditmar
Asterophora parasitica (Fr.) Sing.

Baeospora

Baeospora myriadophylla (Pk.) Singer (syn. -
Collybia myriadophylla Pk.)

Bolbitius

Bolbitius callisteus (Pk.) Singer
Bolbitius aleuriatus (Fr.) Sing.
Bolbitius coprophilus Pk.
Bolbitius reticulatus (Fr.) Ricken
Bolbitius vitellinus (Fr.) Fr. (syn. - Bolbitus
fragilis (L. ex) Fr.)

Catathelasma

Catathelasma ventricosum (Pk.) Singer

Cheimonophyllum

Cheimonophyllum candidissimus (B. & C.) Sing.
(syn. - Pleurotus candidissimus (B. & C.) Sacc.)

Clitocybe

Clitocybe aeruginosa Bigelow
Clitocybe carolinensis Big. & Hes.
Clitocybe clavipes (Fr.) Kummer
Clitocybe cokeri Hes.
Clitocybe cyathiformis (Fr.) Kummer
Clitocybe densifolia (Favre) Big. & Sm.
Clitocybe discolor (Secr.) Murr.
Clitocybe ditopa Fr.
Clitocybe eccentrica Pk.
Clitocybe ectypoides (Pk.) Sacc.
Clitocybe epichysium (Fr.) Big.
Clitocybe fasciculata Big. & Sm. . (syn. -
Lepista caespitosa (Bres.) Sing.)
Clitocybe fellioides Kauff.
Clitocybe gibba (Fr.) Kummer
Clitocybe gigantea (Fr.) Quél.
Clitocybe griseopallida (Desm.) Singer
Clitocybe highlandensis Hes. & Sm.
Clitocybe hohensis (Sm.) Big.
Clitocybe hydrogramma (Fr.) Kummer
Clitocybe illudens (Schw.) Sacc.
Clitocybe imaiana Singer
Clitocybe inornata (Fr.) Gill.
Clitocybe nuda (Fr.) Big. & Sm.
Clitocybe odora (Fr.) Kummer var. odora
Clitocybe pinophila (Pk.) Sacc.
Clitocybe regularis Pk.

Clitocybe rivulosa (Fr.) Kummer
Clitocybe robusta Pk.
Clitocybe senilis (Fr.) Gillet
Clitocybe sinopica (Fr.) Kummer
Clitocybe squamulosa (Fr.) Kummer
Clitocybe striatula (Kuhner) Orton
Clitocybe subclavata (Pk.) Big. & Hes.
Clitocybe subconnexa Murr.
Clitocybe subditopoda Pk.
Clitocybe subpulchella Big. (ined.)
Clitocybe tarda var. alcalina Big.
Clitocybe tarda Pk. var. tarda
Clitocybe trullaeformis (Fr.) Qué1.
Clitocybe ulmicola Big. (ined.)
Clitocybe vermicularis (Fr.) Qué1.

Clitocybula

Clitocybula lacerata (Pollina) Metrod

Clitopilus

Clitopilus noveboracensis Pk. var. noveboracensis
Clitopilus noveboracensis var. subviolaceus Pk.
Clitopilus orcella (Fr.) Kummer
Clitopilus prunulus (Fr.) Kummer

Collybia

Collybia abundans Pk.
Collybia acervata (Fr.) Kummer
Collybia alba Pk.
Collybia aquosa Fr.
Collybia butyracea (Fr.) Kummer
Collybia colorea Pk.
Collybia confluens (Fr.) Kummer
Collybia conigena Coker
Collybia conigenoides Ellis
Collybia dichrous (B. & C.) Gilliam
Collybia dryophila (Fr.) Kummer
Collybia exsculpta (Fr.) Gill. var. exsculpta
Collybia exsculpta var. rubescentifolia Pk.
Collybia familia (Pk.) Sacc.
Collybia fasciata (Penn.) Smith (ined.)
Collybia flaccida Sm. & Hes.
Collybia glatfelteri Murr.
[Collybia lacunosa Pk. - see: Cryptotrama
chrysopeplum (B. & C.) Singer]
Collybia leucocephaloides (Pk.) Singer

Collybia maculata (Fr.) Kummer var. *maculata*
Collybia maculata var. *moschata* Lovejoy
Collybia maculata var. *occidentalis* Sm.
Collybia maculata var. *scorzonerea* (Fr.) Gillet
 [*Collybia myriadophylla* Pk. - see: *Baeospora*
myriadophylla (Pk.) Singer]
Collybia olivaceobrunnea Sm. & Hes.
Collybia peronata (Fr.) Singer
Collybia praeacuta (Ellis) Gilliam
Collybia spongiosa (B. & C.) Singer
Collybia subnuda (Pk.) Gilliam
Collybia tuberosa (Fr.) Kummer
Collybia velutipes Fr.
Collybia virginiana Murr.

Conocybe

Conocybe intermedia (Sm.) Kuhner
Conocybe pubescens (Gillet) Kuhner
Conocybe rickenii (J. Schaeff.) Kuhner
Conocybe tenera (Fr.) Kuhner var. *tenera*
Conocybe tenera var. *subovalis* Kuhner

Coprinus

Coprinus angulatus Pk.
Coprinus micaceus (Fr.) Fr.
Coprinus plicatilis (Fr.) Fr.

Cortinarius

Cortinarius actus (Fr.) Fr.
Cortinarius alboviolaceus (Fr.) Fr.
Cortinarius annulatus Pk.
Cortinarius anomalus (Fr.) Fr.
Cortinarius argentatus (Fr.) Fr.
Cortinarius arquatus sensu Lange
Cortinarius badius Pk.
Cortinarius bivelus (Fr.) Fr.
Cortinarius bolaris (Fr.) Fr.
Cortinarius boudieri Henry
Cortinarius braendlei Pk.
Cortinarius brevipes Pk.
Cortinarius brunneofulvus (Fr.) Fr.
Cortinarius callisteus (Fr.) Fr.
Cortinarius calochrous (Fr.) Fr.
Cortinarius camphoratus Fr.
Cortinarius canescens Pk.
Cortinarius cinnabarinus Fr.

Cortinarius cinnamomeus (Fr.) Fr.
 Cortinarius colymbadinus Fr.
 Cortinarius compressus Smith
 Cortinarius corrugatus Pk.
 Cortinarius corruscans Fr.
 Cortinarius croceocaeruleus Fr.
 Cortinarius croceofolius Pk.
 Cortinarius cyanites Fr.
 Cortinarius cylindripes Kauff.
 Cortinarius deceptivus Kauff.
 Cortinarius delibutus Fr.
 Cortinarius distans Pk.
 Cortinarius elegantior Fr.
 Cortinarius erythrinus (Fr. ex Secr.) Fr.
 Cortinarius evernius (Fr.) Fr.
 Cortinarius flavifolius Pk.
 Cortinarius flexipes Fr.
 Cortinarius gentilis Fr.
 Cortinarius glandicolor Fr.
 Cortinarius glaucopus (Fr.) Fr.
 Cortinarius glutinosus Pk.
 Cortinarius hemitrichus Fr.
 Cortinarius hinnuleus Fr.
 Cortinarius humicola (Quél.) Maire
 Cortinarius iliopodius Fr.
 Cortinarius infractus Fr.
 Cortinarius injucundus Fr.
 Cortinarius iodes B. & C.
 Cortinarius iodeoides Kauff.
 Cortinarius lanatipes Pk.
 Cortinarius laniger Fr.
 Cortinarius lapidophilus Pk.
 Cortinarius largus Fr.
 Cortinarius lilacinus Pk.
 Cortinarius luteobrunnescens Smith
 Cortinarius malachus (Fr.) Fr.
 Cortinarius malicorius Fr.
 Cortinarius mammosus Kauff.
 Cortinarius modestus Pk.
 Cortinarius montanus Kauff.
 Cortinarius morrisii Pk.
 Cortinarius mucosus (Fr.) Ricken
 Cortinarius multifolius Fr.
 Cortinarius multiformis (Fr. ex Secr.) Fr.
 Cortinarius muscigenus Pk.
 Cortinarius mutabilis Smith
 Cortinarius nigrellus Pk.
 Cortinarius nigrocupidatus Kauff.

Cortinarius obliquus Pk.
Cortinarius obtusus Fr.
Cortinarius olivaceus Pk.
Cortinarius periscelis Fr.
Cortinarius phoeniceus var. *occidentalis* Smith
Cortinarius plumiger Fr.
Cortinarius porphyropus Fr.
Cortinarius praepallens Pk.
Cortinarius privignus Fr.
Cortinarius pseudosalor Lange
Cortinarius pulchrifolius Pk. var. *pulchrifolius*
Cortinarius pulchrifolius var. *odorifer* Hesler
Cortinarius purpurascens (Fr.) Fr.
Cortinarius raphanoides (Fr.) Fr.
Cortinarius renidens Fr.
Cortinarius rigens Fr.
Cortinarius rigidus Fr.
Cortinarius rusticus Karsten
Cortinarius sanguineus (Fr.) Fr.
Cortinarius scandens Fr.
Cortinarius scaurus (Fr.) Fr.
Cortinarius scutulatus Fr.
Cortinarius semisanguineus (Fr.) Kauff.
Cortinarius sphaerosporus Pk.
Cortinarius splendidus Pk.
Cortinarius squamulosus Pk.
Cortinarius subaustralis Sm. & Hes.
Cortinarius sublexipes Pk.
Cortinarius subpulchrifolius Kauff.
Cortinarius subpurpurascens Fr.
Cortinarius subrimosus Sm. & Hes.
Cortinarius subtabularius Kauff.
Cortinarius torvus (Fr.) Fr.
Cortinarius uraceus Fr.
Cortinarius variicolor (Fr.) Fr.
Cortinarius vibratilis Fr.
Cortinarius violaceus Fr.

Crepidotus

Crepidotus alabamensis Murr.
*Crepidotus albatu*s Hes. & Sm.
Crepidotus amygdalosporus Kühner
Crepidotus appalachianensis Hes. & Sm.
Crepidotus applanatus (Pers.) Kummer var. *applanatus*
Crepidotus applanatus var. *globigera* (Berk.) Sacc.
Crepidotus aureifolius Hes. & Sm.
Crepidotus betulae Murr.
Crepidotus croceitinctus Pk.

Crepidotus crocophyllus (Berk.) Sacc.
Crepidotus cystidiosus Hes. & Sm.
Crepidotus ellipsoideus Hes. & Sm.
Crepidotus epibryus (Fr.) Quél.
Crepidotus fraxinicola Murr.
Crepidotus herbarum (Pk.) Sacc.
Crepidotus kauffmanii Hes. & Sm.
Crepidotus malachius (B. & C.) Sacc. var. *malachius*
Crepidotus malachius var. *trichiiferus* Hes. & Sm.
Crepidodotus mollis (Fr.) Staude var. *mollis*
Crepidotus montanus Hes. & Sm.
Crepidotus nephrodes (B. & C.) Sacc.
Crepidotus putrigenus (B. & C.) Sacc.
Crepidotus regularis Hes. & Sm.
Crepidotus smithii Hes.
Crepidotus unicus Hes. & Sm.
Crepidotus versutus (Pk.) Sacc.
Crepidotus viridiphyllus Hes.
Crepidotus viscidiphyllus Hes.
Crepidotus vulgaris Hes. & Sm.

Crinipellis

Crinipellis stipitaria (Fr.) Pat.
Crinipellis zonatus (Pk.) Pat.

Cystoderma

Cystoderma amianthinum (Fr.) Fayod var.
amianthinum
Cystoderma amianthinum f. *rugoso-reticulatum*
 (lorinser) Sm. & Sing.
Cystoderma amianthinum var. *sublongisporum*
 Singer
Cystoderma granulorum (Fr.) Fayod
Cystoderma granosum (Morgan) Sm. & Sing.
Cystoderma ponderosum Sm. & Sing.

Entoloma

Entoloma abortivum (B. & C.) Donk
Entoloma aethiops (Fr.) Stevenson var. *aethiops*
Entoloma aethiops var. *cystidiosum* Hes.
Entoloma alabamense (Murr.) Hes.
Entoloma albatum Hes.
Entoloma albinellum (Pk.) Hes.
Entoloma albosericeum Hes.
Entoloma albo-umbonatum Hes.

Entoloma appalachianense Hes.
 Entoloma atrodiscus Hes.
 Entoloma aurantiobrunneum Hes.
 Entoloma avellaneosquamosum Hes.
 Entoloma babingtonii (Blox.) Hes.
 Entoloma brevipes Murr.
 Entoloma brunneipes Hes.
 Entoloma brunneocinereum Hes.
 Entoloma byssisedum (Fr.) Donk
 Entoloma caeruleorubescens Hes.
 Entoloma candens Hes.
 Entoloma candidulum Hes.
 Entoloma canescens Hes.
 Entoloma canum Hes.
 Entoloma carolinense Hes.
 Entoloma carolinianum Hes.
 Entoloma clavipes Hes.
 Entoloma clypeatum (Fr.) Kummer
 Entoloma coelestinum (Fr.) Hes.
 Entoloma cokeri Murr.
 Entoloma conicum (Pk.) Hes.
 Entoloma delicatum Hes.
 Entoloma depluens (Fr.) Hes.
 Entoloma euchroum (Fr.) Donk
 Entoloma fasciculatum Hes.
 Entoloma fibrillosum (Pk.) Hes.
 Entoloma foetidum Hes.
 Entoloma fragrans Hes.
 Entoloma fuliginomarginatum Hes.
 Entoloma fumeum Hes.
 Entoloma fumosifolium Hes.
 Entoloma fuscosquamosus Hes.
 Entoloma gracile Hes.
 Entoloma grayanum (Pk.) Sacc. var. grayanum
 Entoloma griseobrunneum Hes.
 Entoloma griseo-incarnatum Hes.
 Entoloma griseum (Pk.) Hes.
 Entoloma hesleri Morgan-Jones
 Entoloma infuscatum Hes.
 Entoloma lagenicystis Hes.
 Entoloma latifolium Hes.
 Entoloma lividomurinum Hes.
 Entoloma luridum Hes.
 Entoloma luteoroseum Hes.
 Entoloma luteum Pk.
 Entoloma maculatum Hes.
 Entoloma madidum (Fr.) Gill.
 Entoloma mammosum (Fr.) Hes.
 Entoloma marginatum Hes.

Entoloma micropus (Pk.) Hes.
 Entoloma mougeotii (Fr.) Hes.
 Entoloma murinum Pk.
 Entoloma murraini (B. & C.) Sacc.
 Entoloma nigrobrunneum Hes.
 Entoloma nigrosquamosum Hes.
 Entoloma nigroviolaceum var. striatulum Hes.
 Entoloma nigroviolaceum (Orton) Hes. var.
 nigroviolaceum
 Entoloma odorifer Hes.
 Entoloma olivaceobrunneum Hes.
 Entoloma olivaceomarginatum Hes.
 Entoloma olivaceosquamosum Hes.
 Entoloma pallido-olivaceum Hes.
 Entoloma papillatum (Bres.) Dennis
 Entoloma parvipapillatum (Murr.) Hes.
 Entoloma parvum (Pk.) Hes.
 Entoloma prismosporum Hes.
 Entoloma pyrinum (B. & C.) Hes.
 Entoloma rhodopolium (Fr.) Kummer
 Entoloma rimosus Hes.
 Entoloma roseum (Longyear) Hes.
 Entoloma rugulosum Hes.
 Entoloma salmoneum (Pk.) Sacc.
 Entoloma scabrinellum (Pk.) Sacc.
 Entoloma sericatum (Britz.) Sacc.
 Entoloma sericellum var. amarum Hes.
 Entoloma sericellum (Fr.) Kummer var. sericellum
 Entoloma sericeum (Merat) Quél.
 Entoloma serrulatum (Fr.) Hes.
 Entoloma setastipes Hes.
 Entoloma squamodiscum Hes.
 Entoloma squamulosum Hes.
 Entoloma stipitatum (Sm. & Hes.) Hes.
 Entoloma striatum Hes.
 Entoloma strictius var. cystidiosum Hes.
 Entoloma strictius (Pk.) Sacc. var. strictius
 Entoloma subcorvinum Hes.
 Entoloma subfarinaceum Hes.
 Entoloma subgriseum Hes.
 Entoloma subhirtipes Hes.
 Entoloma subnigrum (Murr.) Hes.
 Entoloma subplanum (Pk.) Hes.
 Entoloma subplicatum Hes.
 Entoloma subquadratum Hes.
 Entoloma subserrulatum (Pk.) Hes.
 Entoloma substrictius Murr.
 Entoloma subumbonatum Hes.
 Entoloma tephreum Hes.

Entoloma umbiliciformis Hes.
Entoloma unicolor (Pk.) Hes.
Entoloma velatum Hes.
Entoloma velutinum Hes.
Entoloma violaceum Murr.
Entoloma viridipallidum Hes.
Entoloma vulgare Hes.

Galerina

Galerina autumnalis (Pk.) Sm. & Sing.
var. autumnalis
Galerina cerina var. ampullicystis Sm. & Sing.
Galerina evelata (Sing.) Sm. & Sing. var. evelata
Galerina heterocystis (Atk.) Sm. & Sing.
Galerina larigna Sing.
Galerina marginata (Fr.) Kummer
Galerina papillata Sing.
Galerina semilanceolata (Pk.) Sm. & Sing.
Galerina sphagnum (Fr.) Kuhner
Galerina subcerina Sm. & Sing. var. subcerina

Gerronema

Gerronema chrysophyllum (Fr.) Sing. (syn. --
Omphalia chrysophylla (Fr.) Kummer)
Gerronema strombodes (Berk. & Mont.) Sing.
(syn. -- Omphalia strombodes (B. & C.))

Gomphidius

Gomphidius nigricans Pk.
Gomphidius rutilus ssp. alabamensis Singer
Gomphidius rutilus (Fr.) Lundell & Nannfeldt
var. rutilus
Gomphidius vinicolor Pk.

Gymnopilus

Gymnopilus aeruginosus (Pk.) Sing.
Gymnopilus flavidellus Murr.
Gymnopilus fuscusquamulosus Hes.
Gymnopilus liquiritiae (Fr.) Karst.
Gymnopilus naucorioides Hes.
Gymnopilus picreus (Fr.) Karst.
Gymnopilus spectabilis (Fr.) Smith

Hebeloma

Hebeloma albomarginatum Hes.
Hebeloma angustisporium Hes.
Hebeloma asperulatum Hes.
[Hebeloma avellaneifolium sp. nov.]
Hebeloma brunneifolium Hes.
[Hebeloma fasciculatum sp. nov.]
[Hebeloma linearifolium sp. nov.]
Hebeloma mesophaeum (Fr.) Quél.
[Hebeloma nitidum sp. nov.]
[Hebeloma ochraceodiscus sp. nov.]
[Hebeloma ochraceum sp. nov.]
[Hebeloma odoriferum sp. nov.]
[Hebeloma pallens sp. nov.]
[Hebeloma parvulum sp. nov.]
Hebeloma perangustisporium Hes.
[Hebeloma piceicola sp. nov.]
[Hebeloma pinicola sp. nov.]
Hebeloma politum Hes.
Hebeloma rivulosum He.
[Hebeloma subasperulatum sp. nov.]
[Hebeloma submite sp. nov.]
Hebeloma velatum Pk.

Hohenbuehlia

Hohenbuehlia petaloides (Fr.) Schultz
[syn. -- H. spathulatus?]
Hohenbuehlia grises (Pk.) Sing.
Hohenbuehlia serotinus (Fr.) Sing.

Hygrophoropsis

Hygrophoropsis aurantiaca (Fr.) Maire var.
aurantiaca

Hygrophorus

Hygrophorus acutoconicus (Clement) Smith
Hygrophorus appalachianensis Hes. & Sm.
Hygrophorus aurantius (Murr.) Murr.
Hygrophorus borealis Pk. f. borealis
Hygrophorus caespitosus Murr.
Hygrophorus calyptraeformis Berk. & Br.
Hygrophorus canescens Sm. & Hes.
Hygrophorus cantharellus Schw.
Hygrophorus ceraceus (Fr.) Fr.
Hygrophorus chlorophanus (Fr.) Fr.
Hygrophorus chrysaspis Metrod
Hygrophorus coccineus Fr.
Hygrophorus conicus (Fr.) Fr.
Hygrophorus cuspidatus Pk.
Hygrophorus deceptivus Sm. & Hes.
Hygrophorus eburneus (Fr.) Fr.
Hygrophorus fallax Sm. & Hes.
Hygrophorus flavescens (Kauff.) Sm. & Hes.
Hygrophorus fuligineus Frost
Hygrophorus gliocyclus Fr.
Hygrophorus hymenocephalus Sm. & Hes.
Hygrophorus hypothejus (Fr.) Fr.
Hygrophorus kauffmanii Sm. & Hes.
Hygrophorus laetus (Fr.) Fr.
Hygrophorus marginatus Pk. var. marginatus
Hygrophorus marginatus var. olivaceus
Sm. & Hes.
Hygrophorus miniatus (Fr.) Fr. var. miniatus
Hygrophorus minutulus Pk.
Hygrophorus mycenoides Sm. & Hes.
Hygrophorus nitidus B. & C.
Hygrophorus nitratus Fr.
Hygrophorus niveus Fr.

Hygrophorus obconicus Pk.
Hygrophorus occidentalis Sm. & Hes.
Hygrophorus ovinus (Fr.) Fr.
Hygrophorus paludosus Pk.
Hygrophorus parvulus Pk.
Hygrophorus peckianus Howe
Hygrophorus ponderatus Britz
Hygrophorus pratensis (Fr.) Fr.
Hygrophorus pseudo-ovinus sp. nov. (not
published as yet, Oct. 1976)
Hygrophorus pseudopallidus Hes. & Sm.
Hygrophorus psitticinus Fr.
Hygrophorus puniceus Fr.
Hygrophorus purpurascens Schw.
Hygrophorus urssula (Fr.) Quel.
Hygrophorus spadiceus var. *albifolius* Hes. & Sm.
Hygrophorus subaustralis Sm. & Hes.
Hygrophorus subovinus Hes. & Sm.
Hygrophorus subviolaceus Pk.
Hygrophorus tennesseensis Sm. & Hes.
Hygrophorus tephroleucus (Fr.) var. *tephroleucus*
Hygrophorus tephroleucus var. *aureofloccosus*
Sm. & Hes.
Hygrophorus unquinosus (Fr.) Fr. var. *unquinosus*
Hygrophorus virgineus (Fr.) Fr.

Hypsizygus

Hypsizygus tessulatus (Fr.) Sing. (syn. --
Pleurotus ulmarius)

Inocybe

Inocybe albodisca Pk.
Inocybe atripes Atk.
Inocybe caesariata (Fr.) P. Karsten
Inocybe calamistrata (Fr.) Quéll.
Inocybe castanea Pk.
Inocybe ciacatricata E. & E.
Inocybe cookei Bres.
Inocybe destriata Fr.
Inocybe eutheloides Pk.
Inocybe fastigiata (Schaeff.) P. Karst. var.
fastigiata
Inocybe fastigiata var. *microsperma* Bres.
Inocybe fastigiella Atk.
Inocybe fuscodisca (Pk.) Massee

Inocybe geophylla (Fr.) P. Karst. var. *geophylla*
Inocybe geophylla var. *lateritia* Weinm.
Inocybe hystrix (Fr.) Karst.
Inocybe insignis Smith
Inocybe intricata Pk.
Inocybe lacera (Fr.) P. Karst.
Inocybe lanuginosa (Fr.) Kummer
Inocybe letocystis Atk.
Inocybe leptophylla Atk.
Inocybe lilacina (Boud.) Kauff.
Inocybe longicystis Atk.
Inocybe lorillardiana Murr.
Inocybe luteofolia Smith
Inocybe minima Pk.
Inocybe mutata (Pk.) Massee
Inocybe nodulosa Kauff.
Inocybe pallidipes E. & E.
Inocybe praetervisa Quél.
Inocybe prominens Kauff.
Inocybe rimosoides Pk.
Inocybe subdecurrens E. & E.
Inocybe subdestricta Kauff.
Inocybe subochracea var. *burtii*
Inocybe subtomentosa Pk.
Inocybe tahquamenonensis Stuntz
Inocybe trechispora (Berk.) P. Karst.
Inocybe tubarioides Atk.
Inocybe umbrina Bres.
Inocybe umbrinella Bres.
Inocybe violaceofolia Pk.

Laccaria

Laccaria laccata (Berk. & Br.) var. *laccata*
Laccaria laccata var. *striatula* Pk.
Laccaria ochropurpurea (Berk.) Pk.

Lactarius

Lactarius affinis var. *viridilactis* (Kauff.)
 comb. nov.
Lactarius agglutinatus Burl
Lactarius alachuanus Murr. var. *alachuanus*
Lactarius allardii Coker
 [*Lactarius atro-olivaceus* Smith & Hes.]
Lactarius atroviridis Pk.
Lactarius camphoratus (Fr.) Fr.
Lactarius carbonicola Smith

[Lactarius carminascens Smith & Hes.]
 Lactarius carolinensis Hes.
 Lactarius chelidonium Pk. var. chelidonium
 Lactarius chrysorheus Fr.
 Lactarius cinereus Pk. var. cinereus
 [Lactarius cinereus var. fagetorum Smith & Hes.]
 [Lactarius circellatus var. borealis Smith & Hes.]
 Lactarius cokeri Sm. & Hes.
 Lactarius colorascens Pk.
 Lactarius corrugis Pk.
 [Lactarius crassocutis (Smith & Hes.)
 (= L. torminosus var. glabra Murr.)]
 Lactarius croceus Burl.
 Lactarius deceptivus Pk.
 Lactarius delicatus Burl.
 Lactarius deliciosus (Fr.) S. F. Gray var.
 deliciosus
 Lactarius fagicola Sm. & Hes.
 [Lactarius frustratus Smith & Hes.]
 Lactarius fumosus Pk. var. fumosus
 [Lactarius fusco-olivaceus Smith & Hes. var.
 fusco-olivaceus]
 Lactarius gerardii Pk.
 Lactarius glutinopallens Lge. & Möller
 Lactarius griseus Pk.
 Lactarius hygrophoroides Berk. & Curt.
 Lactarius imperceptus Beards. & Burl.
 Lactarius indigo (Schw.) Fr. var. indigo
 Lactarius lanuginosus Burl.
 [Lactarius lavendulaceus Smith & Hes.]
 Lactarius lignyotellus Sm. & Hes.
 Lactarius lignyotus var. canadensis Sm. & Hes.
 Lactarius luteolus Pk.
 Lactarius maculatipes Burl.
 Lactarius maculatus Pk.
 Lactarius maculosus Murr.
 Lactarius marylandicus Sm. & Hes.
 Lactarius mucidus Burl. var. mucidus
 [Lactarius musicola Smith & Hes.]
 Lactarius mutabilis Pk.
 [Lactarius neuhoffii var. fragrans (Burl.)
 Smith & Hes.]
 [Lactarius neuhoffii var. neuhoffii Smith & Hes.]

Lactarius oculatus (Pk.) Burl.
 [*Lactarius olivaceo-brunneus* Smith & Hes.]
Lactarius paradoxus Beards. & Burl.
 [*Lactarius peckii* var. *glaucescens* Smith & Hes.]
Lactarius peckii Burl. var. *peckii*
 [*Lactarius petersenii* Smith & Hes.]
 [*Lactarius piperatus* var. *glaucescens* (Crossl.)
 Smith & Hes.]
Lactarius piperatus (Fr.) S. F. Gray var.
piperatus
Lactarius psammicola Sm. var. *psammicola*
 [*Lactarius pseudo-aspidius* Smith & Hes.]
 [*Lactarius pseudoflexuosus* Smith & Hes.]
Lactarius pseudofuliginosus Sm. & Hes.
 [*Lactarius pseudomaculatus* Smith & Hes.]
 [*Lactarius pungens* Smith & Hes.]
 [*Lactarius purpureo-echinatus* Smith & Hes.]
Lactarius pyrogalus (Fr.) Fr.
Lactarius resimus var. *regalis* Pk.
Lactarius resimus (Fr.) Fr. var. *resimus*
Lactarius rimosellus Pk.
Lactarius rugatus Kuhn. & Romagn.
Lactarius salmoneus Pk. var. *salmoneus*
Lactarius sordidus Pk.
Lactarius speciosus Burl.
 [*Lactarius subgerardii* Smith & Hes.]
Lactarius subisabellinus Murr.
Lactarius subplinthogalus Coker
Lactarius subrubescens Sm. & Hes.
 [*Lactarius subvellerius* var. *subdistans*
 Smith & Hes.]
Lactarius subvellerius Pk. var. *subvellerius*
Lactarius subvelutinus Pk.
Lactarius subserifluus Longyear
Lactarius sumstinei Pk.
Lactarius theiogalus (Fr.) S. F. Gray
Lactarius uvidus (Fr.) Fr. var. *uvidus*
Lactarius vellerius (Fr.) Fr. var. *vellerius*
Lactarius vinaceorufescens Smith
 [*Lactarius vinaceosporus* Smith & Hes.]
 [*Lactarius volemus* var. *flavus* Smith & Hes.]
Lactarius volemus (Fr.) Fr. var. *volemus*

Lentinellus

[See: Singer, Agaricales, 3rd ed., p. 794, 1975, in which he refers to the recent work of Maas Geesteranus, who places the genera Lentinellus and Auriscalpium, a hydneaceous fungus, in a proposed new family, Auriscalpiaceae.]

Lentinellus umbilicatus (Pk.) Singer (syn. --
L. omphalodes (Fr.) Karsten)
Lentinellus ursinus (Fr.) Kuhner
Lentinellus vulpinus (Fr.) Kuhner

Lentinus

Lentinus adhaerens (Fr.) Fr.
Lentinus lepideus (Fr.) Fr.

Lepiota

Lepiota acerina Pk.
Lepiota acutaesquamosa (Weinm.) Kummer
Lepiota alluviana (Fr.) Morgan
Lepiota asperula Atk.
Lepiota bucknallii (B. & Br.) Sacc.
[Singer: Cystolepiota]
Lepiota cepaestipes (Fr.) Kummer
[Leucocoprinus]
Lepiota clypeolaria (Fr.) Kummer
Lepiota cortinarius Lange
Lepiota cristata (Fr.) Kummer
Lepiota cristatella Pk.
Lepiota forquignonii Ricken
Lepiota fuscosquamea Pk.
Lepiota grangei (Eyre) Lange
Lepiota kauffmanii Helen V. Smith
Lepiota lutea (Secr.) Godfrin
Lepiota miamensis Morgan
Lepiota molybdites (Fr.) Sacc.
[Chlorophyllum m. (Fr.) Massee]
Lepiota phaeosticta Morgan
Lepiota procera (Fr.) Kummer [Macrolepiota p.
(Fr.) Sing.]
Lepiota pusillomyces Pk.
Lepiota roseifolia Murr.

Lepiota rubida Kauff.
Lepiota rubrotincta Pk.
Lepiota rufescens (B. & B.) Lange
Lepiota rugulosa Pk.

Leucopaxillus

Leucopaxillus giganteus (Fr.) Singer
Leucopaxillus laterarius (Pk.) Singer & Smith

Limacella

Limacella glischra (Morgan) Murr.
Limacella glioderma (Fr.) Maire
Limacella illinita (Fr.) Maire

Lyophyllum

Lyophyllum conglobatum (Fr.) Kuhner
Lyophyllum fuligineum (Pk.) Sing.
Lyophyllum fumescens (Pk.) comb. nov.

Marasmiellus

Marasmiellus albuscorticus (Secr.) Sing.
Marasmiellus nigripes (Schw.) Sing.
Marasmiellus ramealis (Fr.) Sing.

Marasmius

Marasmius androsaeus (Fr.) Fr.
Marasmius capillaris Morgan
Marasmius cohaerens (Fr.) Cooke var. *cohaerens*
Marasmius cohaerens var. *lachnophyllum* (Berk.)
Gilliam
Marasmius cystidiosus (Sm. & Hes.) Gilliam
Marasmius epodius Bres.
Marasmius floridanus Murr.
Marasmius fulvoferuginosus Gilliam
Marasmius nigripes (Schw.) Fr.
Marasmius pseudoimpudicus Murr.
Marasmius pyrrhocephalus Berk.
Marasmius rotula (Fr.) Fr.
Marasmius scorodonius (Fr.) Fr.
Marasmius siccus (Schw.) Fr.
Marasmius strictipes (Pk.) Singer
Marasmius thujinus Pk.

Melanoleuca

Melanoleuca melanoleuca (Fr.) Pat.

Micromphale

Micromphale foetidum (Schw. ex Fr.) Singer

Mycena

Mycena acicula (Fr.) Kuhner
Mycena alba Pk.
Mycena albiceps (Pk.) Gilliam
Mycena albidula (Pk.) Sing.
Mycena alcalina (Fr.) Qué1.
Mycena algierensis Kuhner
Mycena atroalboides Pk.
Mycena borealis Smith
Mycena capilaripes Pk.
Mycena carolinensis Sm. & Hes.
Mycena cinerella Karst.
Mycena clavicularis (Fr.) Gill.
Mycena collybiiformis Murr.
Mycena concolor (Lange) Kuhner
Mycena corticola (Fr.) S. F. Gray
Mycena cylindrispora Sm.
Mycena delicatella (Pk.) Sm.
Mycena elegantula Pk.
Mycena epipterygia (Fr.) S. F. Gray var. *eipiptergia*
Mycena epipterygia var. *lignicola* Smith
Mycena excisa (Lasch) Gillet
Mycena fagetorum (Fr.) Gill.
Mycena fibula (Fr.) Kuhner
Mycena filopes (Fr.) Qué1.
Mycena flavoalba (Fr.) Qué1.
Mycena fuliginaria (Fr.) Kuhner (= *Collybia succosa*)
Mycena galericulata (Fr.) S. F. Gray
Mycena galopus (Fr.) Qué1.
Mycena gracilis (Quel.) Kuhner
Mycena haematopus (Fr.) Qué1. var. *haematopus*
Mycena haematopus var. *marginata* Lange
Mycena hemispherica Pk.
Mycena hiemalis (Fr.) Qué1.
Mycena inclinata (Fr.) Qué1.
Mycena iodiolens Lundell
Mycena kauffmaniana Smith
Mycena latifolia (Pk.) Sacc.
Mycena leajana Berk.
Mycena leptcephala (Pk.) Gill.

Mycena macrocystidiata Singer
Mycena maculata Sing.
Mycena marginella (Fr.) Quél. var. *marginella*
Mycena marginella var. *rugosodisca* (Pk.) Smith
Mycena metata (Fr.) Quél.
Mycena niveipes Murr.
Mycena ochraceicinerea Murr.
Mycena odorifera (Pk.) Sacc.
Mycena osmondicola Lange
Mycena parabolica (Fr.) Quél.
Mycena pelianthina (Fr.) Quél.
Mycena peltata (Fr.) Gillet
Mycena praelonga Pk.
Mycena pseudoinclinata Smith
Mycena pullata (Berk. & Cke.) Sacc.
Mycena pura (Fr.) Quél.
Mycena purpureofusca (Pk.) Sacc.
Mycena radicatella (Pk.) Sacc. var. *radicatella*
Mycena radicatella var. *laevicystis* Smith
 nom. prov.
Mycena rorida (Fr.) Quél.
Mycena roseipallens (Pk.) Sacc.
Mycena roseocandida (Pk.) Sacc.
Mycena rubromarginata (Fr.) Quel.
Mycena rubrotincta Smith
Mycena rutilantiformis Murr.
Mycena sanguineolenta (Fr.) Quel.
Mycena scaripes Murr.
Mycena setulosa Smith
Mycena stannea (Fr.) Quél.
Mycena subcaerulea (Pk.) Sacc.
Mycena supina (Fr.) Gill.
Mycena tennerrima (Berk.) Quél.
Mycena tenuiceps Sm.
Mycena vulgaris (Fr.) Quél.

Naematoloma

Naematoloma anomalum Smith
Naematoloma capnoides (Fr.) Karst.
Naematoloma dispersum var. *flavifolium* Sm.
Naematoloma elongatum (Fr.) Konrad
Naematoloma ericaceum (Fr.) Sm.
Naematoloma fasciculare (Fr.) Karst.
Naematoloma radicosum (Lange) Kon. & Maubl.
Naematoloma sublateritium (Fr.) Karst.
Naematoloma udum (Fr.) Karst.

Nothopanus

Nothopanus porrigens (Fr.) Sing. (syn --
Pleurotus albolanatus (Pk.) Kauff.)

Omphalina

Omphalina epichysium (Fr.) Quél.
Omphalina griseopallida (Desm.) Quél.

Oudemansiella

Oudemansiella radicata (Fr.) Singer

Panaeolus

Panaeolus retirugis (Fr.) Quél.

Panus

Panus conchatus (Fr.) Fr. (syn. -- Panus
torulosus (Fr.) Fr.)
Panius rudis Fr. (syn. -- Lentinus strigosus
(Schw.) Fr.)
Panus stypticus Fr.
Panus suavissimus (Fr.) Sing. (syn. -- Lentinus
haematopus Berk.; Panellus haematopus (Berk.)
Murr.)
Panus tigrinus (Fr.) Sing.

Paxillus

Paxillus atrotomentosus (Fr.) Fr.
Paxillus curtisii Berk. apud Berk. & Curt.
(syn. -- Paxillus corrugatus Atk.)
Paxillus involutus (Fr.) Fr.
Paxillus panuoides (Fr.) Fr.

Pholiota

Pholiota aberrans Sm. & Hes.
Pholiota abieticola Sm. & Hes.
Pholiota adiposa (Fr.) Kummer
Pholiota aeruginosa Pk.
Pholiota albocrenulata (Pk.) Sacc.
Pholiota albo-olivascens Sm. & Hes.
Pholiota astragalina (Fr.) Sing.
Pholiota aurivella (Fr.) Kummer

Pholiota baptistii Sm. & Hes.
Pholiota confragosa (Fr.) Karst.
Pholiota flammans (Fr.) Kummer
Pholiota flavescens Sm. & Hes.
Pholiota graveolens (Pk.) Sm. & Hes.
Pholiota gummosa (Lasch) Sing.
Pholiota kauffmanii Smith
Pholiota lenta (Fr.) Sing.
Pholiota lubrica (Fr.) Sing.
Pholiota malicicola (Kauff.) Sm. var. *malicola*
Pholiota marginella Pk.
Pholiota multifolia (Pk.) Sm. & Hes.
Pholiota mutabilis (Fr.) Kummer
Pholiota ochrochlora (Fr.) Orton
Pholiota paludosella (Atk.) Sm. & Hes.
Pholiota polychroa (Berk.) Sm. & Brodie
Pholiota rugosa Pk.
Pholiota silvatica (Sm.) Sm. & Hes.
Pholiota spumosa (Fr.) Sing.
Pholiota squarrosoides (Pk.) Sacc.
Pholiota tottenii (Murr.) Sm. & Hes.
Pholiota veris Sm. & Hes.
Pholiota vernalis (Pk.) Sm. & Hes.
Pholiota virescentifolia Sm. & Hes.

Phylloporus

Phylloporus rhodoxanthus (Schw.) Bres.
 (syn. -- *Paxillus rhodoxanthus* Schw.)

Phyllotopsis

Phyllotopsis nidulans (Fr.) Sing. (syn. --
Claudopus nidulans (Fr.) Karst.)

Pleuroflammula

Pleuroflammula flammea (Murr.) Sing.

Pleurotellus

Pleurotellus candidissimus (B. & C.) K. & M.

Pleurotus

Pleurotus levis (B. & C.) Sing. (syn. --
 Panus levis B. & C.)
Pleurotus ostreatus (Fr.) Kummer
Pleurotus sapidus Kalchbr.

Pluteus

Pluteus admirabilis Pk.
Pluteus atriavellaneus Murr.
Pluteus atromarginatus (Singer) Kuhner
Pluteus cervinus (Fr.) Kummer
Pluteus flavofuliginus Atk.
Pluteus leoninus (Fr.) Kummer
Pluteus longistriatus (Pk.) Sacc.
Pluteus lutescens (Fr.) Bres.
Pluteus melleus Murr.
Pluteus nanus (Fr.) Kuhner
Pluteus salicinus (Fr.) Kummer
Pluteus umbrosus (Fr.) Kummer

Psathyrella

Psathyrella agrariella (Atk.) Sm.
Psathyrella anaglaea (Maire) Sm. & Hes.
Psathyrella atomatoides (Pk.) Sm.
Psathyrella camptopoda (Pk.) Sm.
Psathyrella candolleana (Fr.) Maire
Psathyrella confertissima (Atk.) Sm.
Psathyrella conissans (Pk.) Sm.
Psathyrella delineata (Pk.) Sm.
Psathyrella foenisecii (Fr.) Sm.
Psathyrella hydrophila (Fr.) Maire
Psathyrella hymenoccephala (Pk.) Sm.
Psathyrella incerta (Pk.) Sm.
Psathyrella inflatocystis Sm.
Psathyrella lacrymabunda var. *aggregata*
 (Pk.) Sm.
Psathyrella larga (Kauff.) Sm.
Psathyrella madeodisca (Pk.) Sm.
Psathyrella obtusata (Fr.) Sm.
Psathyrella orbitarum (Romagn.) Moser
Psathyrella piceicola Sm. & Hes.
Psathyrella rigidipes (Pk.) Sm.
Psathyrella rugoradiata Hes. & Sm.
Psathyrella squamosa (Karst.) Moser
Psathyrella subvolvata Sm. & Hes.
Psathyrella trepida (Fr.) Gill.

Resupinatus

Resupinatus applicatus (Fr.) S. F. Gray (syn. --
R. atropellitus (P.) Murr.)

Rhodocybe

Rhodocybe nitellina (Fr.) Singer

Rozites

Rozites caperata (Fr.) Karsten

Russula

Russula admirabilis Beards. & Burl.
Russula adusta (Fr.) Fr.
Russula aeruginea Lindbl.
Russula alachuana Murr.
Russula albida Pk.
Russula albidula Pk.
Russula albonigra (Krombh.) Fr. (syn. --
R. sordida Pk.; and *R. subsordida* Pk.)
Russula alutacea (Schw.) Fr.
Russula blackfordae Pk.
Russula blanda Burl.
Russula brevipes Pk.
Russula burkei Burl.
Russula chlorinosma Burl.
Russula claraflava Grove
Russula compacta Frost & Pk.
Russula corallina Burl.
Russula crustosa Pk.
Russula cyanoxantha (Schw.) Fr. var. *cyanoxantha*
Russula cyanoxantha var. *variata* (Bann.) Pk.
Russula decolorans Fr.
Russula delica Fr.
Russula densifolia Secr.
Russula earlei Pk.
Russula eccentrica Pk.
Russula emetica (Fr.) Fr.
Russula emetica ssp. *fragilis* (Fr.) Sing.
Russula expallens Gill.
Russula flava Rom.
Russula flavida Frost & Pk.
Russula foetens Fr.
Russula foetentula Pk.

Russula fosteriana Murr.
Russula fragrantissima Romagn.
Russula granulata (Pk.) Pk.
Russula heterophylla Fr.
Russula integra Fr.
Russula laurocersai Melzer
Russula lepidiformis Murr.
Russula leucomodesta Singer
Russula lutea (Fr.) S. F. Gray
Russula magna Beards.
Russula mariae Pk.
Russula modesta Pk.
Russula nigricans Fr.
Russula nigrodisca Pk.
Russula ochroleucoides Kauff.
Russula ochrophylla Pk.
Russula pectinata Fr.
Russula pectinatoides Pk.
Russula polyphylla Pk. (syn. -- *R. magnifica* Pk.)
Russula pratensis Murr.
Russula pseudofoetens Murr.
Russula puellaris Fr.
Russula pulchella Borscz.
Russula pulverulenta Pk.
Russula pungens Beards.
Russula pusilla Pk.
Russula pusilliformis Murr.
Russula rubescens Beards.
Russula sanguinea Fr.
Russula sericeonitens Kauff.
Russula simillima Pk.
Russula squalida Pk.
Russula subaltacea Burl.
Russula subfoetens W. G. Smith
Russula subobscura Murr.
Russula subvelutina Pk.
Russula tennesseensis Singer
Russula tenuiceps Kauff.
Russula uncialis Pk.
Russula vesca Fr.
Russula veteriosa Fr.
Russula vinacea Burl.
Russula virescens (Zanted.) Fr.

Schizophyllum

Because of the consistency of the basidiocarp and the ontogeny of the gills, Donk and Singer propose that this genus belongs in the family Schizophyllaceae Roze. It is included here because it is commonly listed as an agaric. One species found in the Park.

Schizophyllum commune Fr.

Stropharia

Stropharia albonitens (Fr.) Karsten
Stropharia coronilla (Fr.) Qué1.
Stropharia hardii Atk.
Stropharia rugosa-annulata Farlow
Stropharia semiglobata (Fr.) Qué1.
Stropharia stercoraria Fr.

Tectella

Tectella patellaria (Fr.) Murr. (syn.-- Panus opercularus B. & C.)

Tricholoma

Tricholoma acre Pk.
Tricholoma alabamensis Murr.
Tricholoma album Fr. 13
Tricholoma aurantium (Fr.) Ricken
Tricholoma caligatum Rickens
Tricholoma chrysenteroides Pk.
Tricholoma columbetta (Fr.) Kummer
Tricholoma daviseae Pk.
Tricholoma flavobrunneum (Fr.) Kummer
Tricholoma flavovirens (Fr.) Lundell (syn.--
T. equestre (Fr.) Lundell)
Tricholoma fumosifolium Hes.
Tricholoma imbricatum (Fr.) Kummer
Tricholoma intermedium Pk.
Tricholoma leucocephaloides Pk.
Tricholoma myomyces Lange
Tricholoma odorum Pk.
Tricholoma palustre Smith
Tricholoma pessundatum Fr.
Tricholoma piperatum Pk.
Tricholoma ponderosum (Pk.) Sing.

Tricholoma portentosum (Fr.) Qué1.
Tricholoma resplendens (Fr.) Qué1.
Tricholoma saponaceum (Fr.) Kummer
Tricholoma sejunctum (Fr.) Qué1.
Tricholoma subluteum Pk.
Tricholoma subsejunctum Pk.
Tricholoma sulphureum (Fr.) Kummer
Tricholoma terreum (Fr.) Kummer
Tricholoma tumidum (Fr.) Gill.
Tricholoma vaccinum (Fr.) Kummer
Tricholoma virgatum (Fr.) Kummer
Tricholoma viriditinctum (Pk.) Sacc.

Tricholomopsis

Tricholomopsis decora (Fr.) Sing.
Tricholomopsis hirtellus (Pk.) Sing.
Tricholomopsis platyphylla (Fr.) Sing.
Tricholomopsis rutilans (Fr.) Sing.

Trogia

Trogia alni Pk.
Trogia crispa Fr.

Xeromphalina

Xeromphalina campanella (Fr.) Kuhner & Maire
Xeromphalina caulicinalis (Fr.) Kuhner & Maire
Xeromphalina picta (Fr.) A. H. Smith
Xeromphalina tenuipes (Schw.) A. H. Smith

16. GASTROMYCETES

Astraeus

Astraeus hygrometricus (Pers.) Morgan

Bovista

Bovista minor Morgan

Bovista pila B. & C.

Bovistella

Bovistella radicata (Mont.) Pat.

Calostoma

Calostoma cinnabarina Desv.

Calostoma lutescens (Schw.) Burnap

Calostoma ravenelii (Berk.) Massee

Calvatia

Calvatia cyathiformis (Bosc.) Morg.

Calvatia fragilis (Vitt.) Morg.

Crucibulum

Crucibulum vulgare Tul.

Cyathus

Cyathus striatus Willd.

Geaster

Geaster fimbriatus Fr.

Geaster saccatus Fr.

Geaster triplex Jung.

Geaster velutinus Morg.

Lycoperdon

Lycoperdon atropurpureum Vitt.
Lycoperdon curtisii Berk.
Lycoperdon echinatum Pers.
Lycoperdon fuscum Bon.
Lycoperdon gemmatum Batsch (perlatum Pers.)
Lycoperdon marginatum Vitt.
Lycoperdon peckii Morgan
Lycoperdon pulcherimum B. & C.
Lycoperdon pusillum Batsch
Lycoperdon pyriforme (Schaeff.) Fr.
Lycoperdon subincarnatum Pk.

Mutinus

Mutinus curtisii (Berk.) Fisch.
Mutinus ravenelii (B. & C.) E. Fischer

Phallus

Phallus ravenelii B. & C.

Pisolithus

Pisolithus tinctorius (Pers.) Coker & Couch

Rhizopogon

Rhizopogon atlanticus Coker & Dodge
Rhizopogon hesleri Dodge
Rhizopogon nigrescens Coker & Couch
Rhizopogon roseolus (Corda) Hollos
Rhizopogon rubescens Tul.

Scleroderma

Scleroderma aurantium (Vaill.) Pers.
Scleroderma cepa Vaill. ex Fr.
Scleroderma geaster Fr.
Scleroderma lycoperdoides Schw.
Scleroderma vulgare (Horn.) Fr.

Sphaerobolus

Sphaerobolus stellatus Tode

SELECTED LITERATURE
ON THE FUNGI OF
THE GREAT SMOKY MOUNTAINS NATIONAL PARK

- Bigelow, H. E. and L. R. Hesler. 1960. Clitocybe in Tennessee and North Carolina. Elisha Mitchell Sci. Soc. Jour. 76:155-167.
- Burdsall, H. H. 1971. Notes on some lignicolous Basidiomycetes of the southern United States. J. Elisha Mitchell Sci. Soc. 87:239-245.
- Burdsall, H. H. 1975. Taxonomic and distributional notes on Corticiaceae (Homobasidiomycetes, Aphyllophorales) of the southern Appalachians, in Parker & Roane, Eds., Distributional History of the Biota of the southern Appalachians. University of Virginia Press, pp. 265-286.
- Burdsall, H. H. 1976. A new species of Laeticorticium (Aphyllophorales, Corticiaceae) from the southern Appalachians. J. Elisha Mitchell Sci. Soc. 91:243-245.
- Campbell, M. P. and R. H. Petersen. 1975. Cultural characters of certain Amanita taxa. Mycotaxon 1(3):239-258.
- Coker, W. C. and A. H. Beers. 1943. The Boletaceae of North Carolina. University of North Carolina Press, pp. 1-96.
- Coker, W. C. and A. H. Beers. 1951. The Stipitate Hydnums of Eastern United States, University of North Carolina Press, pp. 1-86.
- Cooley, L. M. 1934. A preliminary list of the Myxomycetes of eastern Tennessee. J. Tennessee Acad. Sci. 9:84-86.
- Dearnness, J. 1941. New species of Tennessee fungi. Mycologia 33:360-366.
- Dyko, B. J. 1976. A preliminary study of aquatic Hyphomycetes on leaves in forest and stream leaf litter. J. Tennessee Acad. Sci. 51:3-8.
- Dyko, B. J. 1977. A survey of aquatic and water-borne Hyphomycetes of the southern Appalachian Mountains, with notes on extra-limital taxa. Ph.D. Dissertation, Univ. Tennessee, (Ined.) 276 pp.

- Fiasson, J. L., R. H. Petersen, M. P. Bouchez, and N. Arpin. 1970. Recherches chimiotaxonomiques sur les Champignons. XIV. Contribution biochemique a la connaissance taxonomique de certain champignons cantharelloides et clavarioides. Rev. Mycol. 34:357-364.
- Gilbertson, R. L. 1963. Resupinate hydneaceous fungi of North America. Mycologia 48:137-149.
- Hesler, L. R. 1937. A preliminary list of the fungi of the Great Smoky Mountains National Park. Castanea 2:45-58.
- Hesler, L. R. 1936. Notes on Southern Appalachian fungi. J. Tennessee Acad. Sci. 11:107-122.
- Hesler, L. R. 1937. Notes on Southern Appalachian fungi, II. J. Tennessee Acad. Sci. 12:239-254.
- Hesler, L. R. 1941. Notes on Southern Appalachian fungi, III. J. Tennessee Acad. Sci. 16:161-173.
- Hesler, L. R. 1942. Notes on Southern Appalachian fungi, IV. J. Tennessee Acad. Sci. 17:242-249.
- Hesler, L. R. 1943. Notes on Southern Appalachian fungi, V. J. Tennessee Acad. Sci. 18:290-297.
- Hesler, L. R. 1945. Notes on Southern Appalachian fungi, VI. J. Tennessee Acad. Sci. 20:233-238.
- Hesler, L. R. 1945. Notes on Southern Appalachian fungi, VII. J. Tennessee Acad. Sci. 20:363-372.
- Hesler, L. R. 1949. Notes on Southern Appalachian fungi, VIII. J. Tennessee Acad. Sci. 24:81-93.
- Hesler, L. R. 1951. Notes on Southern Appalachian fungi, IX. J. Tennessee Acad. Sci. 26:4-14.
- Hesler, L. R. 1952. Notes on Southern Appalachian fungi, X. J. Tennessee Acad. Sci. 27:271-277.
- Hesler, L. R. 1951. Notes on Boletes. VIII (Co-authors: W. H. Snell and E. A. Dick). Mycologia 43:359-364.
- Hesler, L. R. 1954. Notes on Southern Appalachian fungi, XI. J. Tennessee Acad. Sci. 29:205-219.

- Hesler, L. R. 1955. Notes on Southern Appalachian fungi, XII. J. Tennessee Acad. Sci. 30:212-221.
- Hesler, L. R. 1960. Mushrooms of the Great Smokies, University of Tennessee Press. 289 pp.
- Hesler, L. R. 1967. Entoloma in Southeastern North America, in Beihefte zur Nova Hedwigia, Heft 23. 196 pp.
- Hesler, L. R. 1969. North American Species of Gymnopilus.
- Hesler, L. R. 1975. New Species of Crepidotus. Beih. Nova Hedwigia 51:133-137.
- Hesler, L. R. and A. H. Smith. 1960. Studies on Lactarius - I. Brittonia 12:119-139.
- Hesler, L. R. and A. H. Smith. 1960. Studies on Lactarius - II. Brittonia 12:306-350.
- Hesler, L. R. and A. H. Smith. 1963. North American species of Hygrophorus. University of Tennessee Press. 416 pp.
- Hesler, L. R. and A. H. Smith. 1965. North American species of Crepidotus. Hafner Publishing Co., New York. 168 pp.
- Hubbard, M. and R. H. Petersen. 1977. Studies in basidial nuclear behavior of selected species of clavarioid and cantharelloid fungi. Beih. Nova Hedwigia (In press).
- Kanouse, Bessie B. 1941. New and unusual species of Discomycetes. Mycologia 33:461-467. (One species from the Park, submitted by L. R. Hesler, is described as new: Cenangium tennesseense sp. nov. Co-type material is on deposit in The Univ. of Tennessee Herbarium (No. 12139).)
- Kauffman, C. H. 1917. Tennessee and Kentucky fungi. Mycologia 9:159-166. (Most of the species were taken at Elkmont. Two new species described.)
- Larsen, M J. 1970. Tomentella and related genera in North America, VI. Some synonymy and additional new records. Mycologia 62:256-271.
- Larsen, M. J. and R. L. Gilbertson. 1977. Studies in Laeticorticium (Aphylllophorales, Corticiaceae) and related genera. Norwegian J. Bot. 24:99-121.

- Linder, D. H. 1941. Mycological Society of America Rep. on the 1929 Foray. *Mycologia* 33:570-578.
(List of species reported by collectors, many of which are not represented in The Univ. of Tennessee Herbarium and have not been reported from the park before.)
- Linder, David H. 1939. A new species of Elaphomyces from the Great Smoky Mountains National Park. *Elisha Mitchell Sci. Soc. J.* 55:131-133.
- Lombard, F. F. and H. H. Burdsall. 1975. Taxonomy of Corticium chrysocreas and Phlebia livida. *Mycologia* 67:495-510.
- Lowe, J. L. and R. L. Gilbertson. 1961. Synopsis of the Polyporaceae of the Southeastern United States. *Elisha Mitchell Sci. Soc. J.* 77:43-61.
- Mains, E. B. 1939. Cordyceps from the mountains of North Carolina and Tennessee. *Elisha Mitchell Sci. Soc. J.* 55:117-129.
- Mains, E. B. 1940. Species of Cordyceps. *Mycologia* 32:310-320.
- Mains, E. B. 1940. New and unusual species of the Geoglossaceae. *Amer. J. Bot.* 27:322-325.
- Mains, E. B. 1954. North American species of Geoglossum and Trichoglossum. *Mycologia* 46:586-631.
- Mains, E. B. 1957. Species of Cordyceps parasitic on Elaphomyces. *Torrey Bot. Club Bull.* 84:243-251.
- Overholts, L. O. 1941. New species of Polyporaceae. *Mycologia* 33:90-102. (One new species is described from Cades Cove.)
- Petersen, R. H. 1960. Culicidospora, a new genus of aquatic, aleuriosporous Hyphomycetes. *Torrey Bot. Club Bull.* 87:342-347.
- Petersen, R. H. 1962. Aquatic Hyphomycetes from North America. I. Aleuriosporae (part I) and key to the genera. *Mycologia* 54:117-151.
- Petersen, R. H. 1963. Aquatic Hypomycetes from North America. II. Aleurosporae (part 2), and Blastosporae. *Mycologia* 55:18-29.
- Petersen, R. H. 1963. Aquatic Hyphomycetes from North America. III. Phialosporae and miscellaneous species. *Mycologia* 55:570-582.

- Petersen, R. H. 1964. Notes on Clavarioid fungi. I
The Clavulina castaneopes complex. Mycologia 56:20-28.
- Petersen, R. H. 1964. Notes on Clavarioid fungi. II.
Correction in the genera Ramariopsis and Clavaria.
Torrey Bot. Club Bull. 91:274-280.
- Petersen, R. H. 1965. Notes on Clavarioid fungi. III.
Clavaria inaequalis Muller ex Fries. Nova Hedwigia 10:261-268.
- Petersen, R. H. 1968. The genus Clavulinopsis in
North America. Mycologia Mem. 2:1-39.
- Petersen, R. H. 1969. Notes on Cantharelloid fungi. II.
Some new taxa, and a note on Pseudocraterellus.
Persoonia 5:211-223.
- Petersen, R. H. 1971a. Notes on Clavarioid fungi. IX.
Addendum to Clavulinopsis in North America.
Persoonia 6:219-229.
- Petersen, R. H. 1971b. The genera Gomphus and Gloeocantharellus
in North America. Nova Hedwigia 20:1-114.
- Petersen, R. H. 1972. Notes on Clavarioid fungi. XII.
Miscellaneous notes on Clavariadelphus, and a
new segregate genus. Mycologia 64:137-152.
- Petersen, R. H. 1973. Introduction in W. C. Coker,
orig. ed. 1923. The clavarias of the United States
and Canada, Reprint ed. J. Cramer, Verlag.
- Petersen, R. H. 1974. Ramaria subg. Lentoramaria with
emphasis on North American taxa. Biblioth. Mycol. 43:161 pp.
- Petersen, R. H. 1975a. Notes on Cantharelloid fungi. IV.
A new species of Cantharellus. Nova Hedwigia, Beih.
51:183-190.
- Petersen, R. H. 1975b. Notes on Cantharelloid fungi.
VI. New species of Craterellus, and infrageneric
rearrangement. Ceska Mykol. 29:199-204.
- Petersen, R. H. 1977. The southern Appalachian
Mountains as a refugium for tropical fleshy
basidiomycetes. Pages 287-295 in Parker and
Roane, eds. Distributional history of the
biota of the southern Appalachians. IV. Algae
and Fungi. University of Virginia Press.

- Petersen, R. H. and L. Ryvarden. 1972. Notes on Cantharelloid fungi. VI. Two new species of Cantharellus. Svensk Bot. Tidsk. 65:399-405.
- Seaver, F. J. 1928. The North American cup-fungi (Operculates). Published privately.
- Seaver, F. J. 1951. The North American cup-fungi (Inoperculates). Published privately.
- Shaffer, R. L. 1964. The subsection Lactarioideae of Russula. Mycologia 56:202-231.
- Shaffer, R. L. 1972. North American Russulas of the subsection Foetentinae. Mycologia 64:1008-1053.
- Singer, R. 1945a. The Boletineae of Florida with notes on extralimital species. I. The Strobilomycetaceae. Farlowia 2:97-141.
- Singer, R. 1945b. The Boletineae of Florida with notes on extralimital species. II. The Boletaceae (Gyroporoideae). Farlowia 2:223-303.
- Singer, R. 1947. The Boletineae of Florida with notes on extralimital species. III. The Boletoidae of Florida. Am. Midl. Natural. 37:1-135.
- Singer, R. and A. H. Smith. 1943. A monograph of the genus Leucopaxillus Boursier. Michigan Acad. Sci., Arts, and Letters. 28:85-132.
- Smith, A. H. 1941. New and unusual agarics from North America. Mycologia 33:1-16.
- Smith, A. H. 1944. New North American agarics. Mycologia 36:242-262. (Includes one new species from the park.)
- Smith, A. H. 1947. North American Species of Mycena. University of Michigan Press. 521 pp.
- Smith, A. H. 1972. The North American species of Psathyrella, N. Y. Bot. Garden Mem. 24:633 pp.
- Smith, A. H. and L. R. Hesler. 1938. Notes on agarics from Tennessee and North Carolina. Elisha Mitchell Sci. Soc. J. 54:261-368.
- Smith, A. H. and L. R. Hesler. 1939. Studies in North American species of Hygrophorus - I. Lloydia 2:1-62.

- Smith, A. H. and L. R. Hesler. 1940. New and unusual agarics from the Great Smoky Mountains National Park. Elisha Mitchell Sci. Soc. Jour. 56:302-324.
- Smith, A. H. and L. R. Hesler. 1942. Studies in North American species of Hygrophorus - II. Lloydia 5:1-94.
- Smith, A. H. and L. R. Hesler. 1943. New and interesting agarics from Tennessee and North Carolina. Lloydia 6:248-266.
- Smith, A. H. and L. R. Hesler. 1946. New and unusual dark-spored agarics from North America. Elisha Mitchell Sci. Soc. J. 62:177-200.
- Smith, A. H. and L. R. Hesler. 1954. Additional North American Hygrophori. Sydowia VIII:304-333.
- Smith, A. H. and L. R. Hesler. 1962. Studies on Lactarius - III. Brittonia 14:369-440.
- Smith, A. H. and L. R. Hesler. 1968. The North American Species of Pholiota. Hafner Publ. Co., New York. 402 pp.
- Smith, A. H. and L. R. Hesler. North American species of Lactarius. Univ. Michigan Press (In press)
- Smith, A. H. and L. R. Hesler. North American species of Hebeloma. (Manuscript prepared by Hesler; in preparation by Smith)
- Smith, A. H. and R. Singer. 1945. A monograph of the genus Cystoderma. Michigan Acad. Sci., Arts, and Letters 30:71-124.
- Smith, A. H. and H. D. Thiers. 1964. A contribution toward a monograph of North American species of Suillus. Privately published, Ann Arbor. 116 pp.
- Smith, Helen V. 1945. The genus Limacella in North America. Michigan Acad. Sci., Arts, and Letters 30:125-147.
- Snell, W. H., A. H. Smith, and L. R. Hesler. 1940. New species of Boleti from Cades Cove in the Great Smokies. Elisha Mitchell Sci. Soc. J. 56:325-328.
- Welden, A. L. 1951. A taxonomic survey of the Myxomycetes of the Great Smoky Mountains National Park. Tennessee Acad. of Sci. J. 26:271-276.

USNPS — GRSM
VEG. MGT

Resource Manager, Specialist
Great Smoky Mountains National Park
Gatlinburg, TN 37729